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         JJJ        000000000    BBBBBBBBBBBB      CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
         JJJ        00C000000    BBBBBBBBBBBB      CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
         JJJ        000000000    BBBBBBBBBBBB      CCCCCCCCCCC   TTTTTTTTTTTTTTT  LLL
         JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
         JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
         JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
         JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
         JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
         JJJ    000       000    BBBBBBBBBBBB      CCC                  TTT       LLL
         JJJ    000       000    BBBBBBBBBBBB      CCC                  TTT       LLL
         JJJ    000       000    BBBBBBBBBBBB      CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
 JJJ     JJJ    000       000    BBB        BBB    CCC                  TTT       LLL
   JJJJJJJJJ        000000000    BBBBBBBBBBBB      CCCCCCCCCCC          TTT       LLLLLLLLLLLLLL
   JJJJJJJJJ        000000000    BBBBBBBBBBBB      CCCCCCCCCCC          TTT       LLLLLLLLLLLLLL
   JJJJJJJJJ        000000000    BBBBBBBBBBBB      CCCCCCCCCCC          TTT       LLLLLLLLLLLLLL
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  SSSSSSSS   NN      NN  DDDDDDD            JJ  BBBBBBBB     CCCCCCCC
  SSSSSSSS   NN      NN  DDDDDDD            JJ  BBBBBBBB     CCCCCCCC
SS           NN      NN  DD     DD          JJ  BB      BB  CC
SS           NN      NN  DD     DD          JJ  BB      BB  CC
SS           NNNN    NN  DD     DD          JJ  BB      BB  CC
SS           NNNN    NN  DD     DD          JJ  BB      BB  CC
  SSSSSS     NN NN   NN  DD     DD          JJ  BBBBBBBB    CC
  SSSSSS     NN  NN  NN  DD     DD          JJ  BBBBBBBB    CC
        SS   NN   NNNN   DD     DD  JJ      JJ  BB      BB  CC
        SS   NN   NNNN   DD     DD  JJ      JJ  BB      BB  CC
        SS   NN      NN  DD     DD  JJ      JJ  BB      BB  CC       ...
        SS   NN      NN  DD     DD  JJ      JJ  BB      BB  CC       ...
SSSSSSSS     NN      NN  DDDDDDD      JJJJJ     BBBBBBBB     CCCCCCCC  ...
SSSSSSSS     NN      NN  DDDDDDD      JJJJJ     BBBBBBBB     CCCCCCCC  ...


LL           IIIIII     SSSSSSSS
LL           IIIIII     SSSSSSSS
LL             II     SS
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LL             II             SS
LLLLLLLLLL   IIIIII   SSSSSSSS
LLLLLLLLLL   IIIIII   SSSSSSSS
```

```
   1   0001  0 MODULE SNDJBC    (%TITLE '$SNDACC, $SNDSMB, and $SNDJBC services'
   2   0002  0                   IDENT = 'V04-000'
   3   0003  0                   ) =
   4   0004  1 BEGIN
   5   0005  1
   6   0006  1 !
   7   0007  1 !****************************************************************
   8   0008  1 !*                                                              *
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  16   0016  1 !*   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
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  21   0021  1 !*   AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
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  25   0025  1 !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.    *
  26   0026  1 !*                                                              *
  27   0027  1 !*                                                              *
  28   0028  1 !****************************************************************
  29   0029  1 !
  30   0030  1
  31   0031  1 !++
  32   0032  1 ! FACILITY:
  33   0033  1 !       Job controller.
  34   0034  1 !
  35   0035  1 ! ABSTRACT:
  36   0036  1 !       This module contains the routines that implement the $SNDACC, $SNDSMB
  37   0037  1 !       and $SNDJBC services.
  38   0038  1 !
  39   0039  1 ! ENVIRONMENT:
  40   0040  1 !       VAX/VMS user and kernel mode.
  41   0041  1 !--
  42   0042  1 !
  43   0043  1 ! AUTHOR: M. Jack, CREATION DATE: 16-Feb-1982
  44   0044  1 !
  45   0045  1 ! MODIFIED BY:
  46   0046  1 !
  47   0047  1 !       V03-015 JAK0229         J A Krycka      24-Aug-1984
  48   0048  1 !               Collect additional diagnostic information.
  49   0049  1 !
  50   0050  1 !       V03-014 KPL0002         P Lieberwirth,  23-Jul-1984
  51   0051  1 !               Protect routine SJC_CLOSE_JOB against possible SJH queue_link
  52   0052  1 !               corruption.
  53   0053  1 !
  54   0054  1 !       V03-013 JAK0220         J A Krycka      18-Jul-1984
  55   0055  1 !               Add support for SJC$_PAGINATE and SJC$_NOPAGINATE item codes
  56   0056  1 !               for queue level operations.
  57   0057  1 !
```

```
  58    0058  1 !      V03-012 JAK0219        J A Krycka      17-Jul-1984
  59    0059  1 !              Add support for SJC$_BUFFER_COUNT and SJC$_EXTEND_QUANTITY
  60    0060  1 !              item codes for the SJC$_START_QUEUE_MANAGER function. Also,
  61    0061  1 !              add SJC$_RESERVED_xxx codes.
  62    0062  1 !
  63    0063  1 !      V03-011 JAK0216        J A Krycka      19-Jun-1984
  64    0064  1 !              Continuation of V03-010.
  65    0065  1 !
  66    0066  1 !      V03-010 JAK0203        J A Krycka      17-Apr-1984
  67    0067  1 !              Add support for SJC$ACCOUNT_NAME, SJC$_UIC, and SJC$_USERNAME
  68    0068  1 !              item codes for the $SNDJBC system service.
  69    0069  1 !
  70    0070  1 !      V03-009 GRR0003        Gregory R. Robert       16-Sep-1983
  71    0071  1 !              Make SJC$_DELETE_FILE and invalid option for SJC$_ALTER_JOB
  72    0072  1 !              because delete_permission is now checked only when file is
  73    0073  1 !              initially submitted.
  74    0074  1 !
  75    0075  1 !      V03-008 MLJ0118        Martin L. Jack, 23-Aug-1983
  76    0076  1 !              Change field names, remove temporary 'access allowed' code.
  77    0077  1 !
  78    0078  1 !      V03-007 MLJ0115        Martin L. Jack, 30-Jul-1983
  79    0079  1 !              Changes for job controller baselevel.
  80    0080  1 !
  81    0081  1 !      V03-006 MLJ0114        Martin L. Jack, 23-Jun-1983
  82    0082  1 !              Changes for job controller baselevel and rename from SERVICES.
  83    0083  1 !
  84    0084  1 !      V03-005 MLJ0113        Martin L. Jack, 26-May-1983
  85    0085  1 !              Changes for job controller baselevel.
  86    0086  1 !
  87    0087  1 !      V03-004 MLJ0112        Martin L. Jack, 29-Apr-1983
  88    0088  1 !              Changes for job controller baselevel.
  89    0089  1 !
  90    0090  1 !      V03-003 MLJ0111        Martin L. Jack, 20-Apr-1983
  91    0091  1 !              Correct problem in remote resume.
  92    0092  1 !
  93    0093  1 !      V03-002 MLJ0110        Martin L. Jack, 18-Apr-1983
  94    0094  1 !              Change STOP_QUEUE_MANAGER to abort or requeue executing jobs.
  95    0095  1 !
  96    0096  1 !      V03-001 MLJ0109        Martin L. Jack  14-Apr-1983
  97    0097  1 !              Changes for job controller baselevel.
  98    0098  1 !
  99    0099  1 !**
```

```
  101        0100  1  REQUIRE 'SRC$:JOBCTLDEF';
  102        1141  1
  103        1142  1
  104        1143  1  FORWARD ROUTINE
  105        1144  1          SJC_ABORT_JOB,
  106        1145  1          SJC_ADD_FILE,
  107        1146  1          SJC_ALTER_JOB,
  108        1147  1          SJC_ALTER_QUEUE,
  109        1148  1          SJC_ASSIGN_QUEUE,
  110        1149  1          SJC_BATCH_CHECKPOINT,
  111        1150  1          SJC_CLOSE_DELETE,
  112        1151  1          SJC_CLOSE_JCB,
  113        1152  1          SJC_CREATE_JOB,
  114        1153  1          SJC_CREATE_QUEUE,
  115        1154  1          SJC_DEASSIGN_QUEUE,
  116        1155  1          SJC_DEFINE_CHARACTERISTIC,
  117        1156  1          SJC_DEFINE_FORM,
  118        1157  1          SJC_DELETE_CHARACTERISTIC,
  119        1158  1          SJC_DELETE_FORM,
  120        1159  1          SJC_DELETE_JOB,
  121        1160  1          SJC_DELETE_QUEUE,
  122        1161  1          SJC_ENTER_FILE,
  123        1162  1          SJC_MERGE_QUEUE,
  124        1163  1          SJC_PAUSE_QUEUE,
  125        1164  1          SJC_RESERVED_FUNC_1,
  126        1165  1          SJC_RESERVED_FUNC_2,
  127        1166  1          SJC_RESET_QUEUE,
  128        1167  1          SET_ACCOUNTING_FLAGS,
  129        1168  1          SJC_START_ACCOUNTING,
  130        1169  1          SJC_START_QUEUE,
  131        1170  1          SJC_START_QUEUE_MANAGER,
  132        1171  1          CLEAR_ACCOUNTING_FLAGS,
  133        1172  1          SJC_STOP_ACCOUNTING,
  134        1173  1          SJC_STOP_QUEUE,
  135        1174  1          SJC_STOP_QUEUE_MANAGER,
  136        1175  1          SJC_SYNCHRONIZE_JOB,
  137        1176  1          SJC_WRITE_ACCOUNTING,
  138        1177  1          PROCESS_ONE_OPTION,
  139        1178  1          SNDACC_SERVICE,
  140        1179  1          PROCESS_SNDSMB_OPTIONS,
  141        1180  1          SNDSMB_SERVICE,
  142        1181  1          PROCESS_SNDJBC_ITEM_LIST,
  143        1182  1          SNDJBC_SERVICE;
  144        1183  1
  145        1184  1
  146        1185  1  EXTERNAL ROUTINE
  147        1186  1          ABORT_EXECUTOR_JOB,
  148        1187  1          ALLOCATE_RECORD:              L_OUTPUT_2,
  149        1188  1          APPLY_SFM_OPTIONS,
  150        1189  1          APPLY_SJH_OPTIONS,
  151        1190  1          APPLY_SMQ_OPTIONS,
  152        1191  1          APPLY_SQR_OPTIONS,
  153        1192  1          CHECK_R_ACCESS,
  154        1193  1          CHECK_W_ACCESS,
  155        1194  1          CHECK_E_ACCESS,
  156        1195  1          CHECK_D_ACCESS,
  157        1196  1          CLOSE_ACCOUNTING_FILE:        NOVALUE,
```

; R

```
  158    1197   1            COMPLETE_JOB:                      NOVALUE,
  159    1198   1            COMPLETE_SRB_OUTPUT_ITEM:          NOVALUE,
  160    1199   1            CREATE_SRB:                        NOVALUE,
  161    1200   1            CREATE_SFM_RECORD:                 L_OUTPUT_2,
  162    1201   1            CREATE_SJH_RECORD:                 L_OUTPUT_2,
  163    1202   1            CREATE_SMQ_RECORD:                 L_OUTPUT_2,
  164    1203   1            CREATE_SQR_RECORD:                 L_OUTPUT_2,
  165    1204   1            CREATE_SRQ_RECORD,
  166    1205   1            DEALLOCATE_RECORD:                 NOVALUE,
  167    1206   1            DELETE_SFM_RECORD:                 NOVALUE,
  168    1207   1            DELETE_SJH_RECORD:                 NOVALUE,
  169    1208   1            DELETE_SMQ_RECORD:                 NOVALUE,
  170    1209   1            DELETE_SQR_RECORD:                 NOVALUE,
  171    1210   1            DEQUEUE_OPEN_JOB:                  L_OUTPUT_1,
  172    1211   1            ENQUEUE_JOB:                       L_OUTPUT_2 NOVALUE,
  173    1212   1            ENTER_PROCESS_DATA:                NOVALUE,
  174    1213   1            FIND_CHARACTERISTIC:               L_OUTPUT_1,
  175    1214   1            FIND_FORM_NAME:                    L_OUTPUT_2,
  176    1215   1            FIND_FORM_NUMBER:                  L_OUTPUT_2,
  177    1216   1            FIND_FORM_REFERENCES,
  178    1217   1            FIND_PENDING_JOBS:                 NOVALUE,
  179    1218   1            FIND_PROCESS_DATA:                 L_OUTPUT_3,
  180    1219   1            FIND_QUEUE:                        L_OUTPUT_4,
  181    1220   1            FIND_QUEUE_REFERENCES,
  182    1221   1            INITIALIZE_QUEUE_FILE,
  183    1222   1            JOB_STATUS_MESSAGE,
  184    1223   1            LOCATE_SRB_OUTPUT_ITEM,
  185    1224   1            LOCK_QUEUE_FILE:                   NOVALUE,
  186    1225   1            OPEN_ACCOUNTING_FILE:              NOVALUE,
  187    1226   1            PAUSE_EXECUTION,
  188    1227   1            READ_RECORD,
  189    1228   1            RELEASE_RECORD:                    NOVALUE,
  190    1229   1            REQUEUE_STARTING_JOBS:             NOVALUE,
  191    1230   1            RESET_EXECUTOR_QUEUE:              NOVALUE,
  192    1231   1            RESUME_EXECUTION,
  193    1232   1            REWRITE_RECORD:                    NOVALUE,
  194    1233   1            SCAN_INCOMPLETE_SERVICES:          NOVALUE,
  195    1234   1            SEARCH_QUEUES:                     L_OUTPUT_4,
  196    1235   1            SEND_SERVICE_RESPONSE_MESSAGE:     NOVALUE,
  197    1236   1            SJC_BATCH_SERVICE,
  198    1237   1            START_SYMBIONT_STREAM,
  199    1238   1            STOP_SYMBIONT_STREAM:              NOVALUE,
  200    1239   1            UNLOCK_QUEUE_FILE:                 NOVALUE,
  201    1240   1            UPDATE_GETQUI_DATA:                NOVALUE,
  202    1241   1            UPDATE_SFX_ENTRY:                  NOVALUE,
  203    1242   1            UPDATE_SQX_ENTRY:                  NOVALUE,
  204    1243   1            VALIDATE_OBJECT_NAME,
  205    1244   1            WRITE_USER_ACCOUNTING_RECORD:      NOVALUE;
  206    1245   1
  207    1246   1
  208    1247   1 EXTERNAL
  209    1248   1            EXE$GL_ACMFLAGS:                   BBLOCK ADDRESSING_MODE(GENERAL),
  210    1249   1            SCS$GB_NODENAME:                   VECTOR[,BYTE] ADDRESSING_MODE(GENERAL),
  211    1250   1            SYS$GB_MAXQUEPRI:                  BYTE ADDRESSING_MODE(GENERAL);
  212    1251   1
  213    1252   1
  214    1253   1 BUILTIN
```

```
215    1254  1         MOVC3,
216    1255  1         SUBM,
217    1256  1         TESTBITCS;
218    1257  1         TESTBITSC;
```

```
220    1258   1 ROUTINE SJC_ABORT_JOB(SQX_N,SQE,SMQ_N,SMQ)=
221    1259   1
222    1260   1 !++
223    1261   1 !
224    1262   1 !   FUNCTIONAL DESCRIPTION:
225    1263   1 !       This routine processes the SJC$_ABORT_JOB (SMR$k_ABORT) request.
226    1264   1 !
227    1265   1 !   INPUT PARAMETERS:
228    1266   1 !       SQX_N               - Record number of SQX.
229    1267   1 !       SQE                 - Pointer to SQX entry.
230    1268   1 !       SMQ_N               - Record number of SMQ.
231    1269   1 !       SMQ                 - Pointer to SMQ.
232    1270   1 !
233    1271   1 !   IMPLICIT INPUTS:
234    1272   1 !       MBX                 - Pointer to buffered mailbox message.
235    1273   1 !
236    1274   1 !   OUTPUT PARAMETERS:
237    1275   1 !       NONE
238    1276   1 !
239    1277   1 !   IMPLICIT OUTPUTS:
240    1278   1 !       NONE
241    1279   1 !
242    1280   1 !   ROUTINE VALUE:
243    1281   1 !       Completion status to be returned to requestor.
244    1282   1 !
245    1283   1 !   SIDE EFFECTS:
246    1284   1 !       NONE
247    1285   1 !
248    1286   1 !--
249    1287   1
250    1288   2 BEGIN
251    1289   2 MAP
252    1290   2       SQE:            REF BBLOCK,      ! Pointer to SQX entry
253    1291   2       SMQ:            REF BBLOCK;      ! Pointer to SMQ
254    1292   2 LOCAL
255    1293   2       DSMQ_N,                          ! Record number of destination SMQ
256    1294   2       DSMQ:           REF BBLOCK,      ! Pointer to destination SMQ
257    1295   2       ESMQ_N,                          ! Record number of executor SMQ
258    1296   2       ESMQ:           REF BBLOCK,      ! Pointer to executor SMQ
259    1297   2       SJH_N,                           ! Record number of SJH
260    1298   2       SJH:            REF BBLOCK,      ! Pointer to SJH
261    1299   2       STATUS_1,                        ! Status return
262    1300   2       STATUS_2;                        ! Status return
263    1301   2
264    1302   2
265    1303   2 ! For a batch queue, ensure that the entry number is specified.
266    1304   2 !
267    1305   2 IF .SMQ[SMQ$V_BATCH] AND NOT .ITEM_PRESENT[SJC$_ENTRY_NUMBER]
268    1306   2 THEN
269    1307   2     RETURN JBC$_MISREQPAR;
270    1308   2
271    1309   2
272    1310   2 ! If a requeue was specified, ensure that the requestor has W access to the
273    1311   2 ! queue and that the type of the new queue is compatible.
274    1312   2 !
275    1313   2 IF .ITEM_PRESENT[SJC$_DESTINATION_QUEUE]
276    1314   2 THEN
```

; R

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

F 11
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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(3)

SND
V04

```
  277   1315   3      BEGIN
  278   1316   3      DSMQ_N = .VALUE_DESTINATION_QUEUE[0];
  279   1317   3      DSMQ = .VALUE_DESTINATION_QUEUE[1];
  280   1318   3
  281   1319   3      IF NOT CHECK_W_ACCESS(.DSMQ)
  282   1320   3      THEN
  283   1321   3          RETURN JBC$_NOPRIV;
  284   1322   3
  285   1323   3      IF .SMQ[SMQ$V_BATCH] NEQ .DSMQ[SMQ$V_BATCH]
  286   1324   3      THEN
  287   1325   3          RETURN JBC$_INCDSTQUE;
  288   1326   2      END;
  289   1327   2
  290   1328   2
  291   1329   2  ! Find the specified current job.
  292   1330   2  !
  293   1331   2  STATUS_1 = SEARCH_QUEUES(
  294   1332   2      QSM_M_CURRENT,
  295   1333   2      .SMQ_N, .SMQ,
  296   1334   2      (IF .ITEM_PRESENT[SJC$_ENTRY_NUMBER] THEN VALUE_ENTRY_NUMBER ELSE 0), 0,
  297   1335   2      CHECK_D_ACCESS,
  298   1336   2      QSM_K_REMOVE_INACTIVE;
  299   1337   2      SJH_N, SJH, ESMQ_N, ESMQ);
  300   1338   2  IF NOT .STATUS_1 THEN RETURN .STATUS_1;
  301   1339   2
  302   1340   2
  303   1341   2  ! If the job is executing, request the executor to abort it.
  304   1342   2  !
  305   1343   2  IF .SJH[SJH$V_EXECUTING]
  306   1344   2  THEN
  307   1345   3      BEGIN
  308   1346   3
  309   1347   3      ! If a previous abort is in progress, refuse this request.
  310   1348   3      !
  311   1349   3      IF .SJH[SJH$V_ABORTING]
  312   1350   3      OR .SJH[SJH$V_ABORTED]
  313   1351   3      THEN
  314   1352   3          RETURN JBC$_INCOMPLETE;
  315   1353   3
  316   1354   3
  317   1355   3      IF .ITEM_PRESENT[SJC$_REQUEUE]
  318   1356   3      THEN
  319   1357   4          BEGIN
  320   1358   4
  321   1359   4          ! If a requeue was specified, ensure that the job is allowed to restart.
  322   1360   4          !
  323   1361   4          IF NOT .SJH[SJH$V_RESTART]
  324   1362   4          THEN
  325   1363   4              RETURN JBC$_NORESTART;
  326   1364   4
  327   1365   4
  328   1366   4          ! Process the subsidiary parameters.
  329   1367   4          !
  330   1368   4          SJH[SJH$V_REQUEUE] = TRUE;
  331   1369   4          SJH[SJH$V_REQUEUE_HOLD] = FALSE;
  332   1370   4          SJH[SJH$B_REQUEUE_PRIORITY] = .SJH[SJH$B_PRIORITY];
  333   1371   4          SJH[SJH$L_REQUEUE_QUEUE_LINK] = 0;
```

```
 334   1372  4
 335   1373  4
 336   1374  4            IF .ITEM_PRESENT[SJC$_DESTINATION_QUEUE]
 337   1375  4            THEN
 338   1376  4                SJH[SJH$L_REQUEUE_QUEUE_LINK] = .DSMQ_N;
 339   1377  4
 340   1378  4
 341   1379  4            IF .ITEM_PRESENT[SJC$_HOLD]
 342   1380  4            THEN
 343   1381  4                SJH[SJH$V_REQUEUE_HOLD] = TRUE;
 344   1382  4
 345   1383  4
 346   1384  4            IF .ITEM_PRESENT[SJC$_PRIORITY]
 347   1385  4            THEN
 348   1386  4                SJH[SJH$B_REQUEUE_PRIORITY] = .VALUE_PRIORITY;
 349   1387  3            END;
 350   1388  3
 351   1389  3
 352   1390  3        ! Execute the actual abort.
 353   1391  3        !
 354   1392  3        STATUS_2 = ABORT_EXECUTOR_JOB(.ESMQ_N, .ESMQ, .SJH_N, .SJH);
 355   1393  3
 356   1394  3
 357   1395  3        REWRITE_RECORD(.SMQ_N);
 358   1396  3        REWRITE_RECORD(.SJH_N);
 359   1397  3        RETURN .STATUS_2;
 360   1398  2        END;
 361   1399  2
 362   1400  2
 363   1401  2 ! The job is not executing.  Process the request immediately.
 364   1402  2 !
 365   1403  2 ESMQ[SMQ$B_CURRENT_JOB_COUNT] = .ESMQ[SMQ$B_CURRENT_JOB_COUNT] - 1;
 366   1404  2 FIND_PENDING_JOBS(.ESMQ_N, .ESMQ);
 367   1405  2 REWRITE_RECORD(.ESMQ_N);
 368   1406  2
 369   1407  2
 370   1408  2 IF .ITEM_PRESENT[SJC$_REQUEUE]
 371   1409  2 THEN
 372   1410  3     BEGIN
 373   1411  3     APPLY_SJH_OPTIONS(.SJH);
 374   1412  3     ENQUEUE_JOB(.SJH_N, .SJH);
 375   1413  3     REWRITE_RECORD(.SJH_N);
 376   1414  3     END
 377   1415  2 ELSE
 378   1416  3     BEGIN
 379   1417  3     SJH[SJH$V_DELETED] = TRUE;
 380   1418  3     COMPLETE_JOB(.SJH_N, .SJH, .SMQ, 0);
 381   1419  2     END;
 382   1420  2
 383   1421  2
 384   1422  2 REWRITE_RECORD(.SMQ_N);
 385   1423  2 SS$_NORMAL
 386   1424  1 END;
```

```
                                                    .TITLE   SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services
                                                    .IDENT   \V04-000\
```

```
                                      .PSECT  COMMON,NOEXE,  OVR,2

                      00000 DIAG_STORAGE_BASE:
                                    .BLKB   0
                      00000 DIAG_TRACE:
                                    .BLKB   96
                      00060 DIAG_COUNT:
                                    .BLKB   96
                      000C0 DIAG_FLAGS:
                                    .BLKB   4
                      000C4 WORK_AREA:
                                    .BLKB   44
                      000F0 SNDJBC_COUNT:
                                    .BLKB   132
                      00174 GETQUI_COUNT:
                                    .BLKB   40
                      0019C SNDACC_COUNT:
                                    .BLKB   28
                      001B8 SNDSMB_COUNT:
                                    .BLKB   72
                      00200 DIAG_STORAGE_END:
                                    .BLKB   0
                      00200 FLAGS:  .BLKB   4
                      00204 IMAGE_DUMP_STSFLG:
                                    .BLKB   4
                      00208 THIS_SYSID:
                                    .BLKB   6
                      0020E         .BLKB   2
                      00210 CUR_TIME:
                                    .BLKB   8
                      00218 HOURLY_TIME:
                                    .BLKB   8
                      00220 HOURLY_PARAMS:
                                    .BLKB   20
                      00234 SYMBIONT_COUNT:
                                    .BLKB   4
                      00238 QUEUE_REFERENCE_COUNT:
                                    .BLKB   4
                      0023C MBX_MESSAGE_COUNT:
                                    .BLKB   4
                      00240 MBX:    .BLKB   4
                      00244 MBX_END:.BLKB   4
                      00248 MEMORY_FREE_QUEUES:
                                    .BLKB   40
                      00270 NONAST_WORK_QUEUE:
                                    .BLKB   8
                      00278 BCB_FREE_LIST:
                                    .BLKB   4
                      0027C BCB_ACTIVE_LIST:
                                    .BLKB   4
                      00280 GQL_FREE_LIST:
                                    .BLKB   4
                      00284 GQL_ACTIVE_LIST:
                                    .BLKB   4
                      00288 OPEN_GETQUI_LIST:
                                    .BLKB   4
```

```
0028C PROCESS_DATA_LIST:
              .BLKB     4
00290 SYMBIONT_CONTROL:
              .BLKB     4
00294 SPARE_AREA:
              .BLKB     12
002A0 REMOTE_REQUEST_LKSB:
              .BLKB     8
002A8 QUEUE_FILE_LKSB:
              .BLKB     8
002B0 QUEUE_LOCK_LKSB:
              .BLKB     8
002B8 RSP:    .BLKB     8
002C0 JBC_PRIORITY:
              .BLKB     4
002C4 JBC_PRIVILEGES:
              .BLKB     8
002CC JBC_QUOTAS:
              .BLKB     66
0030E         .BLKB     2
00310 JBC_UIC:.BLKB     4
00314 QUEUE_FAB:
              .BLKB     80
00364 QUEUE_RAB:
              .BLKB     68
003A8 QUEUE_NAM:
              .BLKB     96
00408 QUEUE_XAB:
              .BLKB     88
00460 QUEUE_RSA:
              .BLKB     255
0055F         .BLKB     1
00560 QUEUE_ALQ:
              .BLKB     4
00564 QUEUE_MBF:
              .BLKB     1
00565         .BLKB     3
00568 ACCOUNTING_FABS:
              .BLKB     8
00570 ACCOUNTING_RABS:
              .BLKB     8
00578 ACCOUNT_FAB_A:
              .BLKB     80
005C8 ACCOUNT_RAB_A:
              .BLKB     68
0060C ACCOUNT_NAM_A:
              .BLKB     96
0066C ACCOUNT_RSA_A:
              .BLKB     255
0076B         .BLKB     1
0076C ACCOUNT_FAB_B:
              .BLKB     80
007BC ACCOUNT_RAB_B:
              .BLKB     68
00800 ACCOUNT_NAM_B:
              .BLKB     96
00860 ACCOUNT_RSA_B:
```

```
                              .BLKB      255
      0095F                   .BLKB      1
      00960 DIAG_FAB:
                              .BLKB      80
      009B0 DIAG_RAB:
                              .BLKB      68
      009F4 MBX_CHAN:
                              .BLKB      4
      009F8 MBX_IOSB:
                              .BLKB      8
      00A00 MBX_BUFFER:
                              .BLKB      1024
      00E00 VALUE_STORAGE_BASE:
                              .BLKB      0
      00E00 ITEM_PRESENT:
                              .BLKB      32
      00E20 VALUE_GETQUI_BASE:
                              .BLKB      0
      00E20 VALUE_ACCOUNTING_MESSAGE:
                              .BLKB      6
      00E26 VALUE_ACCOUNTING_TYPES:
                              .BLKB      4
      00E2A VALUE_AFTER_TIME:
                              .BLKB      8
      00E32 VALUE_ALIGNMENT_PAGES:
                              .BLKB      1
      00E33 VALUE_BASE_PRIORITY:
                              .BLKB      1
      00E34 VALUE_BATCH_INPUT:
                              .BLKB      6
      00E3A VALUE_BATCH_OUTPUT:
                              .BLKB      10
      00E44 VALUE_BUFFER_COUNT:
                              .BLKB      1
      00E45 VALUE_CHARACTERISTIC_NAME:
                              .BLKB      6
      00E4B VALUE_CHARACTERISTIC_NUMBER:
                              .BLKB      1
      00E4C VALUE_CHARACTERISTICS:
                              .BLKB      16
      00E5C VALUE_CHECKPOINT_DATA:
                              .BLKB      6
      00E62 VALUE_CLI:
                              .BLKB      6
      00E68 VALUE_CPU_DEFAULT:
                              .BLKB      4
      00E6C VALUE_CPU_LIMIT:
                              .BLKB      4
      00E70 VALUE_DESTINATION_QUEUE:
                              .BLKB      8
      00E78 VALUE_DEVICE_NAME:
                              .BLKB      6
      00E7E VALUE_ENTRY_NUMBER:
                              .BLKB      4
      00E82 VALUE_ENTRY_NUMBER_OUTPUT:
                              .BLKB      10
      00E8C VALUE_EXTEND_QUANTITY:
```

; R

```
                        .BLKB    2
00E8E VALUE_FILE_COPIES:
                        .BLKB    1
00E8F VALUE_FILE_IDENTIFICATION:
                        .BLKB    36
00EB3 VALUE_FILE_SETUP_MODULES:
                        .BLKB    6
00EB9 VALUE_FILE_SPECIFICATION:
                        .BLKB    6
00EBF VALUE_FIRST_PAGE:
                        .BLKB    4
00EC3 VALUE_FORM_DESCRIPTION:
                        .BLKB    6
00EC9 VALUE_FORM_LENGTH:
                        .BLKB    1
00ECA VALUE_FORM_MARGIN_BOTTOM:
                        .BLKB    1
00ECB VALUE_FORM_MARGIN_LEFT:
                        .BLKB    2
00ECD VALUE_FORM_MARGIN_RIGHT:
                        .BLKB    2
00ECF VALUE_FORM_MARGIN_TOP:
                        .BLKB    1
00ED0 VALUE_FORM_NAME:
                        .BLKB    6
00ED6 VALUE_FORM_NUMBER:
                        .BLKB    4
00EDA VALUE_FORM:
                        .BLKB    8
00EE2 VALUE_FORM_SETUP_MODULES:
                        .BLKB    6
00EE8 VALUE_FORM_STOCK:
                        .BLKB    6
00EEE VALUE_FORM_WIDTH:
                        .BLKB    2
00EF0 VALUE_GENERIC_TARGET:
                        .BLKB    996
012D4 VALUE_JOB_COPIES:
                        .BLKB    1
012D5 VALUE_JOB_LIMIT:
                        .BLKB    1
012D6 VALUE_JOB_NAME:
                        .BLKB    6
012DC VALUE_JOB_RESET_MODULES:
                        .BLKB    6
012E2 VALUE_JOB_SIZE_MAXIMUM:
                        .BLKB    4
012E6 VALUE_JOB_SIZE_MINIMUM:
                        .BLKB    4
012EA VALUE_JOB_STATUS_OUTPUT:
                        .BLKB    10
012F4 VALUE_LAST_PAGE:
                        .BLKB    4
012F8 VALUE_LIBRARY_SPECIFICATION:
                        .BLKB    6
012FE VALUE_LOG_QUEUE:
                        .BLKB    8
```

```
01306 VALUE_LOG_SPECIFICATION:
       .BLKB   6
0130C VALUE_NOTE:
       .BLKB   6
01312 VALUE_OPERATOR_REQUEST:
       .BLKB   6
01318 VALUE_OWNER_UIC:
       .BLKB   4
0131C VALUE_PAGE_SETUP_MODULES:
       .BLKB   6
01322 VALUE_PARAMETER_1:
       .BLKB   6
01328 VALUE_PARAMETER_2:
       .BLKB   6
0132E VALUE_PARAMETER_3:
       .BLKB   6
01334 VALUE_PARAMETER_4:
       .BLKB   6
0133A VALUE_PARAMETER_5:
       .BLKB   6
01340 VALUE_PARAMETER_6:
       .BLKB   6
01346 VALUE_PARAMETER_7:
       .BLKB   6
0134C VALUE_PARAMETER_8:
       .BLKB   6
01352 VALUE_PRIORITY:
       .BLKB   1
01353 VALUE_PROCESSOR:
       .BLKB   6
01359 VALUE_PROTECTION:
       .BLKB   4
0135D VALUE_QUEUE:
       .BLKB   6
01363 VALUE_QUEUE_FILE_SPECIFICATION:
       .BLKB   6
01369 VALUE_RELATIVE_PAGE:
       .BLKB   4
0136D VALUE_RESERVED_INPUT_1:
       .BLKB   1
0136E VALUE_RESERVED_INPUT_2:
       .BLKB   2
01370 VALUE_RESERVED_INPUT_3:
       .BLKB   4
01374 VALUE_RESERVED_INPUT_4:
       .BLKB   6
0137A VALUE_RESERVED_OUTPUT_1:
       .BLKB   10
01384 VALUE_RESERVED_OUTPUT_2:
       .BLKB   10
0138E VALUE_SEARCH_STRING:
       .BLKB   6
01394 VALUE_SCSNODE_NAME:
       .BLKB   6
0139A VALUE_WSDEFAULT:
       .BLKB   2
0139C VALUE_WSEXTENT:
```

```
                                        .BLKB    2
                            0139E VALUE_WSQUOTA:
                                        .BLKB    2
                            013A0 VALUE_STORAGE_END:
                                        .BLKB    0

                                  JBC$_CLOSEOUT=        266328
                                  JBC$_NOCMKRNL=        272388
                                  JBC$_NOOPER=          272532
                                  JBC$_NOSYSNAM=        272404
                                  JBC$_OPENIN=          266392
                                  JBC$_OPENOUT=         266400
                                  JBC$_READERR=         266416
                                  JBC$_WRITEERR=        266448
                                        .EXTRN   ABORT_EXECUTOR_JOB
                                        .EXTRN   ALLOCATE_RECORD
                                        .EXTRN   APPLY_SFM_OPTIONS
                                        .EXTRN   APPLY_SJH_OPTIONS
                                        .EXTRN   APPLY_SMQ_OPTIONS
                                        .EXTRN   APPLY_SQR_OPTIONS
                                        .EXTRN   CHECK_R_ACCESS, CHECK_W_ACCESS
                                        .EXTRN   CHECK_E_ACCESS, CHECK_D_ACCESS
                                        .EXTRN   CLOSE_ACCOUNTING_FILE
                                        .EXTRN   COMPLETE_JOB, COMPLETE_SRB_OUTPUT_ITEM
                                        .EXTRN   CREATE_SRB, CREATE_SFM_RECORD
                                        .EXTRN   CREATE_SJH_RECORD
                                        .EXTRN   CREATE_SMQ_RECORD
                                        .EXTRN   CREATE_SQR_RECORD
                                        .EXTRN   CREATE_SRQ_RECORD
                                        .EXTRN   DEALLOCATE_RECORD
                                        .EXTRN   DELETE_SFM_RECORD
                                        .EXTRN   DELETE_SJH_RECORD
                                        .EXTRN   DELETE_SMQ_RECORD
                                        .EXTRN   DELETE_SQR_RECORD
                                        .EXTRN   DEQUEUE_OPEN_JOB
                                        .EXTRN   ENQUEUE_JOB, ENTER_PROCESS_DATA
                                        .EXTRN   FIND_CHARACTERISTIC
                                        .EXTRN   FIND_FORM_NAME, FIND_FORM_NUMBER
                                        .EXTRN   FIND_FORM_REFERENCES
                                        .EXTRN   FIND_PENDING_JOBS
                                        .EXTRN   FIND_PROCESS_DATA
                                        .EXTRN   FIND_QUEUE, FIND_QUEUE_REFERENCES
                                        .EXTRN   INITIALIZE_QUEUE_FILE
                                        .EXTRN   JOB_STATUS_MESSAGE
                                        .EXTRN   LOCATE_SRB_OUTPUT_ITEM
                                        .EXTRN   LOCK_QUEUE_FILE
                                        .EXTRN   OPEN_ACCOUNTING_FILE
                                        .EXTRN   PAUSE_EXECUTION
                                        .EXTRN   READ_RECORD, RELEASE_RECORD
                                        .EXTRN   REQUEUE_STARTING_JOBS
                                        .EXTRN   RESET_EXECUTOR_QUEUE
                                        .EXTRN   RESUME_EXECUTION
                                        .EXTRN   REWRITE_RECORD, SCAN_INCOMPLETE_SERVICES
                                        .EXTRN   SEARCH_QUEUES, SEND_SERVICE_RESPONSE_MESSAGE
                                        .EXTRN   SJC_BATCH_SERVICE
                                        .EXTRN   START_SYMBIONT_STREAM
                                        .EXTRN   STOP_SYMBIONT_STREAM
```

```
                                                    .EXTRN   UNLOCK_QUEUE_FILE
                                                    .EXTRN   UPDATE_GETQUI_DATA
                                                    .EXTRN   UPDATE_SFX_ENTRY
                                                    .EXTRN   UPDATE_SQX_ENTRY
                                                    .EXTRN   VALIDATE_OBJECT_NAME
                                                    .EXTRN   WRITE_USER_ACCOUNTING_RECORD
                                                    .EXTRN   EXE$GL_ACMFLAGS
                                                    .EXTRN   SCS$GB_NODENAME
                                                    .EXTRN   SYS$GB_MAXQUEPRI

                                                    .PSECT   CODE,NOWRT,2

                              0F7C 00000 SJC_ABORT_JOB:
                                                    .WORD    Save R2,R3,R4,R5,R6,R8,R9,R10,R11            ; 1258
                    56 00000000G EF 9E 00002        MOVAB    REWRITE_RECORD, R6
                    55 00000000' EF 9E 00009        MOVAB    ITEM_PRESENT, R5
                    53       10 AC D0 00010         MOVL     SMQ, R3                                      ; 1305
                    0D       0C A3 E9 00014         BLBC     12(R3), 1$
        08       03 A5       06 E0 00018            BBS      #6, ITEM_PRESENT+3, 1$
                    50 00048108 8F D0 0001D         MOVL     #295176, R0                                  ; 1307
                             04 00024               RET
        2D       03 A5       02 E1 00025 1$:        BBC      #2, ITEM_PRESENT+3, 3$                        ; 1313
                    54       70 A5 D0 0002A         MOVL     VALUE_DESTINATION_QUEUE, DSMQ_N               ; 1316
                    58       74 A5 D0 0002E         MOVL     VALUE_DESTINATION_QUEUE+4, DSMQ               ; 1317
                    58          DD 00032            PUSHL    DSMQ                                          ; 1319
           00000000G EF       01 FB 00034           CALLS    #1, CHECK_W_ACCESS
                    08       50 E8 0003B            BLBS     R0, 2$
                    50 00048020 8F D0 0003E         MOVL     #294944, R0                                  ; 1321
                             04 00045               RET
        50       0C A8 0C A3 8D 00046 2$:           XORB3    12(R3), 12(DSMQ), R0                          ; 1323
                    08       50 E9 0004C            BLBC     R0, 3$
                    50 00048120 8F D0 0004F         MOVL     #295200, R0                                  ; 1325
                             04 00056               RET
                             02 DD 00057 3$:        PUSHL    #2                                           ; 1331
               00000000G EF 9F 00059               PUSHAB   CHECK_D_ACCESS
                          7E D4 0005F               CLRL     -(SP)
        08       03 A5       06 E1 00061            BBC      #6, ITEM_PRESENT+3, 4$                        ; 1334
                    50       7E A5 9E 00066         MOVAB    VALUE_ENTRY_NUMBER, R0
                    50          DD 0006A            PUSHL    R0
                          02 11 0006C               BRB      5$
                          7E D4 0006E 4$:           CLRL     -(SP)
                    53          DD 00070 5$:        PUSHL    R3                                            ; 1333
                 0C AC          DD 00072            PUSHL    SMQ_N
                    10          DD 00075            PUSHL    #16                                           ; 1331
           00000000G EF       07 FB 00077           CALLS    #7, SEARCH_QUEUES
                    01       50 E8 0007E            BLBS     STATUS_1, 6$                                 ; 1338
                             04 00081               RET
                    52       10 A9 9E 00082 6$:     MOVAB    16(SJH), R2                                  ; 1343
        72          62       03 E1 00086            BBC      #3, (R2), 13$                                ; 1349
        03          62       01 E0 0008A            BBS      #1, (R2), 7$                                 ; 1350
                    08       62 E9 0008E            BLBC     (R2), 8$
                    50 00048138 8F D0 00091 7$:     MOVL     #295224, R0                                  ; 1352
                             04 00098               RET
        3F       11 A5       01 E1 00099 8$:        BBC      #1, ITEM_PRESENT+17, 12$                      ; 1355
        08       0E A9       01 E0 0009E            BBS      #1, 14(SJH), 9$                              ; 1361
                    50 000480D8 8F D0 000A3         MOVL     #295128, R0                                  ; 1363
                             04 000AA               RET
```

```
                01    A2         01  88 000AB 9$:    BISB2    #1, 1(R2)                          : 1368
                01    A2         02  8A 000AF        BICB2    #2, 1(R2)                          : 1369
               017E   C9    017D C9  90 000B3        MOVB     381(SJH), 382(SJH)                 : 1370
                           0138 C9  D4 000BA        CLRL     312(SJH)                           : 1371
          05     03    A5         02  E1 000BE        BBC      #2, ITEM_PRESENT+3, 10$            : 1374
               0138   C9         54  D0 000C3        MOVL     DSMQ_N, 312(SJH)                   : 1376
                           08   A5  95 000C8 10$:   TSTB     ITEM_PRESENT+8                     : 1379
                                 04  18 000CB        BGEQ     11$
          07     01    A2         02  88 000CD        BISB2    #2, 1(R2)                          : 1381
          07     10    A5         02  E1 000D1 11$:   BBC      #2, ITEM_PRESENT+16, 12$           : 1384
               017E   C9    0552 C5  90 000D6        MOVB     VALUE_PRIORITY, 382(SJH)           : 1386
                      7E         58  7D 000DD 12$:   MOVQ     SJH_N, -(SP)                       : 1392
                      7E         5A  7D 000E0        MOVQ     ESMQ_N, -(SP)
            00000000G EF         04  FB 000E3        CALLS    #4, ABORT_EXECUTOR_JOB
                      54         50  D0 000EA        MOVL     R0, STATUS_2
                           0C   AC  DD 000ED        PUSHL    SMQ_N                              : 1395
                      66         01  FB 000F0        CALLS    #1, REWRITE_RECORD
                      58         DD 000F3        PUSHL    SJH_N                              : 1396
                      66         01  FB 000F5        CALLS    #1, REWRITE_RECORD
                      50         54  D0 000F8        MOVL     STATUS_2, R0                       : 1397
                                 04  000FB        RET
                           0115 CB  97 000FC 13$:   DECB     277(ESMQ)                          : 1403
                      7E         5A  7D 00100        MOVQ     ESMQ_N, -(SP)                      : 1404
            00000000G EF         02  FB 00103        CALLS    #2, FIND_PENDING_JOBS
                      5A         DD 0010A        PUSHL    ESMQ_N                             : 1405
                      66         01  FB 0010C        CALLS    #1, REWRITE_RECORD
          1A     11    A5         01  E1 0010F        BBC      #1, ITEM_PRESENT+17, 14$           : 1408
                      59         DD 00114        PUSHL    SJH                                : 1411
            00000000G EF         01  FB 00116        CALLS    #1, APPLY_SJH_OPTIONS
                      7E         58  7D 0011D        MOVQ     SJH_N, -(SP)                       : 1412
            00000000G EF         02  FB 00120        CALLS    #2, ENQUEUE_JOB
                      58         DD 00127        PUSHL    SJH_N                              : 1413
                      66         01  FB 00129        CALLS    #1, REWRITE_RECORD
                      11         11 0012C        BRB      15$                                : 1408
                      62         04  88 0012E 14$:   BISB2    #4, (R2)                           : 1417
                      7E         D4 00131        CLRL     -(SP)                              : 1418
                      53         DD 00133        PUSHL    R3
                      7E         58  7D 00135        MCVQ     SJH_N, -(SP)
            00000000G EF         04  FB 00138        CALLS    #4, COMPLETE_JOB
                           0C   AC  DD 0013F 15$:   PUSHL    SMQ_N                              : 1422
                      66         01  FB 00142        CALLS    #1, REWRITE_RECORD
                      50         01  D0 00145        MOVL     #1, R0                             : 1424
                                 04  00148        RET
```

; Routine Size: 329 bytes,   Routine Base: CODE + 0000

SNDJBC
V04-000

SSNDACC, SSNDSMB, and SSNDJBC services

C 12
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1

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(4)

SND
V04

```
  388    1425  1 ROUTINE SJC_ADD_FILE=
  389    1426  1
  390    1427  1 !++
  391    1428  1 !
  392    1429  1 !  FUNCTIONAL DESCRIPTION:
  393    1430  1 !       This routine processes the SJC$_ADD_FILE (SMR$K_ADDFIL) request.
  394    1431  1 !
  395    1432  1 !  INPUT PARAMETERS:
  396    1433  1 !       NONE
  397    1434  1 !
  398    1435  1 !  IMPLICIT INPUTS:
  399    1436  1 !       MBX            - Pointer to buffered mailbox message.
  400    1437  1 !
  401    1438  1 !  OUTPUT PARAMETERS:
  402    1439  1 !       NONE
  403    1440  1 !
  404    1441  1 !  IMPLICIT OUTPUTS:
  405    1442  1 !       NONE
  406    1443  1 !
  407    1444  1 !  ROUTINE VALUE:
  408    1445  1 !       Completion status to be returned to requestor.
  409    1446  1 !
  410    1447  1 !  SIDE EFFECTS:
  411    1448  1 !       NONE
  412    1449  1 !
  413    1450  1 !--
  414    1451  1
  415    1452  2 BEGIN
  416    1453  2 LOCAL
  417    1454  2        SJH_N,                              ! Record number of SJH
  418    1455  2        SJH:            REF BBLOCK,         ! Pointer to SJH
  419    1456  2        SQR_N,                              ! Record number of SQR
  420    1457  2        SQR:            REF BBLOCK,         ! Pointer to SQR
  421    1458  2        SQR_N2,                             ! Record number of last SQR for job
  422    1459  2        SQR_2:          REF BBLOCK,         ! Pointer to last SQR
  423    1460  2        STATUS_1,                           ! Status return
  424    1461  2        STATUS_2;                           ! Status return
  425    1462  2
  426    1463  2
  427    1464  2 ! Find an open job owned by this process, but do not dequeue it.
  428    1465  2 !
  429    1466  2 IF NOT FIND_PROCESS_DATA(PDE_K_OPEN_JOB, .MBX[ACM$L_PID], FALSE; , SJH_N)
  430    1467  2 THEN
  431    1468  2     RETURN JBC$_NOOPENJOB;
  432    1469  2
  433    1470  2
  434    1471  2 ! Read the job record.
  435    1472  2 !
  436    1473  2 SJH = READ_RECORD(.SJH_N);
  437    1474  2
  438    1475  2
  439    1476  2 ! Allocate the file record.
  440    1477  2 !
  441    1478  2 STATUS_1 = CREATE_SQR_RECORD(.SJH; SQR_N, SQR);
  442    1479  2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
  443    1480  2
  444    1481  2
```

```
 445   1482   2 ! Apply options to the file record.
 446   1483   2 !
 447   1484   2 STATUS_2 = APPLY_SQR_OPTIONS(.SJH, .SQR);
 448   1485   2 IF NOT .STATUS_2
 449   1486   2 THEN
 450   1487   3     BEGIN
 451   1488   3     SQR[SQR$V_DELETE_FILE] = FALSE;
 452   1489   3     DELETE_SQR_RECORD(.SQR_N, .SQR);
 453   1490   3     RETURN .STATUS_2;
 454   1491   2     END;
 455   1492   2
 456   1493   2
 457   1494   2 ! Enqueue the file record to the end of the file queue on the job header.
 458   1495   2 !
 459   1496   2 IF .SJH[SJH$L_FILE_LIST] EQL 0
 460   1497   2 THEN
 461   1498   3     BEGIN
 462   1499   3     SQR[SYM$W_SEQUENCE] = 1;
 463   1500   3     SJH[SJH$L_FILE_LIST] = .SQR_N;
 464   1501   3     END
 465   1502   2 ELSE
 466   1503   3     BEGIN
 467   1504   3     SQR_2 = READ_RECORD(SQR_N2 = .SJH[SJH$L_FILE_LIST_END]);
 468   1505   3     SQR[SYM$W_SEQUENCE] = .SQR_2[SYM$W_SEQUENCE]+ 1;
 469   1506   3     SQR_2[SYM$L_LINK] = .SQR_N;
 470   1507   3     REWRITE_RECORD(.SQR_N2);
 471   1508   2     END;
 472   1509   2 SJH[SJH$L_FILE_LIST_END] = .SQR_N;
 473   1510   2 REWRITE_RECORD(.SQR_N);
 474   1511   2 REWRITE_RECORD(.SJH_N);
 475   1512   2
 476   1513   2
 477   1514   2 SS$_NORMAL
 478   1515   1 END;
```

```
                                  0E3C 00000 SJC_ADD_FILE:
                                                   .WORD      Save R2,R3,R4,R5,R9,R10,R11              ; 1425
                   55 00000000G  EF  9E 00002      MOVAB      READ_RECORD, R5
                   54 00000000G  EF  9E 00009      MOVAB      REWRITE_RECORD, R4
                            7E   D4 00010          CLRL       -(SP)                                     ; 1466
                   50 00000000' EF  D0 00012       MOVL       MBX, R0
                            28   A0  DD 00019       PUSHL      40(R0)
                            03   DD 0001C           PUSHL      #3
         00000000G EF           03  FB 0001E        CALLS      #3, FIND_PROCESS_DATA
                   53           5A  D0 00025         MOVL       R10, R3
                   08           50  E8 00028         BLBS       R0, 1$
                   50 00048048  8F  D0 0002B         MOVL       #294984, R0                             ; 1468
                            04   00032              RET
                   53           DD 00033 1$:        PUSHL      SJH_N                                    ; 1473
                   65           01  FB 00035        CALLS      #1, READ_RECORD
                   59           50  D0 00038        MOVL       R0, SJH
                   59           DD 0003B            PUSHL      SJH                                      ; 1478
         00000000G EF           01  FB 0003D        CALLS      #1, CREATE_SQR_RECORD
```

```
                         5E            50 E9 00044        BLBC     STATUS_1, 5$                              1479
                                0A00   8F BB 00047        PUSHR    #^M<R9-R11>                               1484
            00000000G  EF            02 FB 0004B        CALLS    #2, APPLY_SQR_OPTIONS
                         52            50 D0 00052        MOVL     R0, STATUS_2                              1485
                         12            52 E8 00055        BLBS     STATUS_2, 2$                              1488
                  0C    AB            01 8A 00058        BICB2    #1, 12(SQR)                               1489
                         7E            5A 7D 0005C        MOVQ     SQR_N, -(SP)
            00000000G  EF            02 FB 0005F        CALLS    #2, DELETE_SQR_RECORD                     1490
                         50            52 D0 00066        MOVL     STATUS_2, R0
                                       04 00069        RET                                                1496
                                0OF4   C9 D5 0006A 2$:   TSTL     244(SJH)
                                       0B 12 0006E        BNEQ     3$                                       1499
                  06    AB            01 B0 00070        MOVW     #1, 6(SQR)                                1500
                  0OF4  C9            5A D0 00074        MOVL     SQR_N, 244(SJH)                           1496
                                       18 11 00079        BRB      4$                                       1504
                         52     0OF8   C9 D0 0007B 3$:   MOVL     248(SJH), SQR_N2
                                       52 DD 00080        PUSHL    SQR_N2                                   1505
                         65            01 FB 00082        CALLS    #1, READ_RECORD
         06   AB         06     A0    01 A1 00085        ADDW3    #1, 6(SQR_2), 6(SQR)                      1506
                         60            5A D0 0008B        MOVL     SQR_N, (SQR_2)                            1507
                         52            52 DD 0008E        PUSHL    SQR_N2
                         64            01 FB 00090        CALLS    #1, REWRITE_RECORD                        1509
                  0OF8   C9            5A D0 00093 4$:   MOVL     SQR_N, 248(SJH)                           1510
                                       5A DD 00098        PUSHL    SQR_N
                         64            01 FB 0009A        CALLS    #1, REWRITE_RECORD                        1511
                                       53 DD 0009D        PUSHL    SJH_N
                         64            01 FB 0009F        CALLS    #1, REWRITE_RECORD
                         50            01 D0 000A2        MOVL     #1, R0                                    1515
                                       04 000A5 5$:   RET
```

; Routine Size: 166 bytes,   Routine Base: CODE + 0149

```
  480       1516   1 ROUTINE SJC_ALTER_JOB(SQX_N,SQE,SMQ_N,SMQ)=
  481       1517   1
  482       1518   1 !++
  483       1519   1 !
  484       1520   1 ! FUNCTIONAL DESCRIPTION:
  485       1521   1 !       This routine processes the SJC$_ALTER_JOB (SMR$K_ALTER) request.
  486       1522   1 !
  487       1523   1 ! INPUT PARAMETERS:
  488       1524   1 !       SQX_N              - Record number of SQX.
  489       1525   1 !       SQE                - Pointer to SQX entry.
  490       1526   1 !       SMQ_N              - Record number of SMQ.
  491       1527   1 !       SMQ                - Pointer to SMQ.
  492       1528   1 !
  493       1529   1 ! IMPLICIT INPUTS:
  494       1530   1 !       MBX                - Pointer to buffered mailbox message.
  495       1531   1 !
  496       1532   1 ! OUTPUT PARAMETERS:
  497       1533   1 !       NONE
  498       1534   1 !
  499       1535   1 ! IMPLICIT OUTPUTS:
  500       1536   1 !       NONE
  501       1537   1 !
  502       1538   1 ! ROUTINE VALUE:
  503       1539   1 !       Completion status to be returned to requestor.
  504       1540   1 !
  505       1541   1 ! SIDE EFFECTS:
  506       1542   1 !       NONE
  507       1543   1 !
  508       1544   1 !--
  509       1545   1
  510       1546   2 BEGIN
  511       1547   2 MAP
  512       1548   2       SQE:           REF BBLOCK,     ! Pointer to SQX entry
  513       1549   2       SMQ:           REF BBLOCK;     ! Pointer to SMQ
  514       1550   2 LOCAL
  515       1551   2       SQH:           REF BBLOCK,     ! Pointer to SQH
  516       1552   2       DSMQ:          REF BBLOCK,     ! Pointer to destination SMQ
  517       1553   2       ESMQ_N,                        ! Record number of executor SMQ
  518       1554   2       ESMQ:          REF BBLOCK,     ! Pointer to executor SMQ
  519       1555   2       SJH_N,                         ! Record number of SJH
  520       1556   2       SJH:           REF BBLOCK,     ! Pointer to SJH
  521       1557   2       SQR_N,                         ! Record number of SQR
  522       1558   2       SQR_NS,                        ! Record number of successor of SQR
  523       1559   2       SQR:           REF BBLOCK,     ! Pointer to SQR
  524       1560   2       STATUS_1,                      ! Status return
  525       1561   2       STATUS_2;                      ! Status return
  526       1562   2
  527       1563   2
  528       1564   2 ! Ensure that the requestor has W access to the log queue if specified.
  529       1565   2 !
  530       1566   2 IF .ITEM_PRESENT[SJC$_LOG_QUEUE]
  531       1567   2 THEN
  532       1568   2     IF NOT CHECK_W_ACCESS(.VALUE_LOG_QUEUE[1])
  533       1569   2     THEN
  534       1570   2         RETURN JBC$_NOPRIV;
  535       1571   2
  536       1572   2
```

```
  537    1573   2  ! If a requeue was specified, ensure that the requestor has W access to the
  538    1574   2  ! queue and that the type of the new queue is compatible.
  539    1575   2  !
  540    1576   2  IF .ITEM_PRESENT[SJC$_DESTINATION_QUEUE]
  541    1577   2  THEN
  542    1578   3      BEGIN
  543    1579   3      DSMQ = .VALUE_DESTINATION_QUEUE[1];
  544    1580   3
  545    1581   3      IF NOT CHECK_W_ACCESS(.DSMQ)
  546    1582   3      THEN
  547    1583   3          RETURN JBC$_NOPRIV;
  548    1584   3
  549    1585   3      IF .SMQ[SMQ$V_BATCH] NEQ .DSMQ[SMQ$V_BATCH]
  550    1586   3      THEN
  551    1587   3          RETURN JBC$_INCDSTQUE;
  552    1588   2      END;
  553    1589   2
  554    1590   2
  555    1591   2  ! Search for the specified job.
  556    1592   2  !
  557    1593   2  STATUS_1 = SEARCH_QUEUES(
  558    1594   2      QSM_M_OPEN OR QSM_M_TIMER OR QSM_M_PENDING OR QSM_M_HOLD OR QSM_M_CURRENT,
  559    1595   2      .SMQ_N, .SMQ,
  560    1596   2      VALUE_ENTRY_NUMBER, 0,
  561    1597   2      CHECK_D_ACCESS,
  562    1598   2      QSM_K_REMOVE_INACTIVE;
  563    1599   2      SJH_N, SJH, ESMQ_N, ESMQ);
  564    1600   2  IF NOT .STATUS_1 THEN RETURN .STATUS_1;
  565    1601   2
  566    1602   2
  567    1603   2  IF .SJH[SJH$V_EXECUTING]
  568    1604   2  THEN
  569    1605   3      BEGIN
  570    1606   3      RETURN JBC$_EXECUTING;
  571    1607   2      END;
  572    1608   2
  573    1609   2
  574    1610   2  IF .SJH[SJH$V_STARTING]
  575    1611   2  THEN
  576    1612   3      BEGIN
  577    1613   3      ESMQ[SMQ$B_CURRENT_JOB_COUNT] = .ESMQ[SMQ$B_CURRENT_JOB_COUNT] - 1;
  578    1614   3      FIND_PENDING_JOBS(.ESMQ_N, .ESMQ);
  579    1615   3      REWRITE_RECORD(.ESMQ_N);
  580    1616   2      END;
  581    1617   2
  582    1618   2
  583    1619   2  STATUS_2 = APPLY_SJH_OPTIONS(.SJH);
  584    1620   2  IF .STATUS_2
  585    1621   2  THEN
  586    1622   3      BEGIN
  587    1623   3      SJH[SJH$L_JOB_SIZE] = 0;
  588    1624   3      SQR_N = .SJH[SJH$L_FILE_LIST];
  589    1625   3      WHILE .SQR_N NEQ 0 DO
  590    1626   4          BEGIN
  591    1627   4          LOCAL
  592    1628   4              STATUS_3;
  593    1629   4
```

```
 594   1630  4              SQR = READ_RECORD(.SQR_N);
 595   1631  4              STATUS_3 = APPLY_SQR_OPTIONS(.SJH, .SQR);
 596   1632  4              IF .STATUS_2 AND NOT .STATUS_3 THEN STATUS_2 = .STATUS_3;
 597   1633  4              SQR_NS = .SQR[SYM$L_LINK];
 598   1634  4              REWRITE_RECORD(.SQR_N);
 599   1635  4              SQR_N = .SQR_NS;
 600   1636  3              END;
 601   1637  2          END;
 602   1638  2
 603   1639  2
 604   1640  2      IF .SJH[SJH$V_OPEN]
 605   1641  2      THEN
 606   1642  3          BEGIN
 607   1643  3          SQH = READ_RECORD(SQH$K_RECNO);
 608   1644  3          SJH[SYM$L_LINK] = .SQH[SQH$L_OPEN_LIST];
 609   1645  3          SQH[SQH$L_OPEN_LIST] = .SJH_N;
 610   1646  3          IF .SJH[SYM$L_LINK] EQL 0 THEN SQH[SQH$L_OPEN_LIST_END] = .SJH_N;
 611   1647  3          ESMQ = READ_RECORD(ESMQ_N = .SJH[SJH$L_QUEUE_LINK]);
 612   1648  3          ESMQ[SMQ$W_OPEN_JOB_COUNT] = .ESMQ[SMQ$W_OPEN_JOB_COUNT] + 1;
 613   1649  3          REWRITE_RECORD(.SJH_N);
 614   1650  3          REWRITE_RECORD(.ESMQ_N);
 615   1651  3          REWRITE_RECORD(SQH$K_RECNO);
 616   1652  3          END
 617   1653  2      ELSE
 618   1654  3          BEGIN
 619   1655  3          ENQUEUE_JOB(.SJH_N, .SJH);
 620   1656  3          REWRITE_RECORD(.SJH_N);
 621   1657  2          END;
 622   1658  2      .STATUS_2
 623   1659  1      END;
```

```
                    OFFC 00000 SJC_ALTER_JOB:
                                                .WORD     Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        1516
                    57 00000000' EF 9E 00002    MOVAB     ITEM_PRESENT+12, R7
                    56 00000000G EF 9E 00009    MOVAB     REWRITE_RECORD, R6
         0E         67          01 E1 00010     BBC       #1, ITEM_PRESENT+12, 1$                      1566
                       04F6     C7 DD 00014     PUSHL     VALUE_LOG_QUEUE+4                            1568
         00000000G EF          01 FB 00018      CALLS     #1, CHECK_W_ACCESS
                    15         50 E9 0001F      BLBC      R0, 2$
         2D       F7 A7        02 E1 00022 1$:  BBC       #2, ITEM_PRESENT+3, 4$                       1576
                    58       68 A7 D0 00027     MOVL      VALUE_DESTINATION_QUEUE+4, DSMQ              1579
                             58 DD 0002B        PUSHL     DSMQ                                         1581
         00000000G EF         01 FB 0002D       CALLS     #1, CHECK_W_ACCESS
                    08         50 E8 00034      BLBS      R0, 3$
                    50 00048020 8F D0 00037 2$: MOVL      #294944, R0                                  1583
                             04 0003E          RET
                    50       10 AC D0 0003F 3$: MOVL      SMQ, R0                                      1585
         51       0C A8    0C A0 8D 00043      XORB3     12(R0), 12(DSMQ), R1
                    08       51 E9 00049       BLBC      R1, 4$
                    50 00048120 8F D0 0004C    MOVL      #295200, R0                                  1587
                             04 00053          RET
                             02 DD 00054 4$:   PUSHL     #2                                           1593
         00000000G EF         9F 00056         PUSHAB    CHECK_D_ACCESS
```

```
                                      7E  D4 0005C            CLRL     -(SP)
                                   72 A7  9F 0005E            PUSHAB   VALUE_ENTRY_NUMBER
                             7E    0C AC  7D 00061            MOVQ     SMQ_N, -(SP)                              : 1595
                                   1F     DD 00065            PUSHL    #31                                       : 1594
              00000000G  EF        07     FB 00067            CALLS    #7, SEARCH_QUEUES
                             01    50     E8 0006E            BLBS     STATUS_1, 5$                              : 1600
                                   04        00071            RET
       08        10  A9            03     E1 00072  5$:       BBC      #3, 16(SJH), 6$                           : 1603
                         50 000480F8     8F  D0 00077         MOVL     #295160, R0                               : 1606
                                   04        0007E            RET
       13        11  A9            04     E1 0007F  6$:       BBC      #4, 17(SJH), 7$                           : 1610
                             0115  CB     97 00084            DECB     277(ESMQ)                                 : 1613
                             7E    5A     7D 00088            MOVQ     ESMQ_N, -(SP)                             : 1614
              00000000G  EF        02     FB 0008B            CALLS    #2, FIND_PENDING_JOBS
                             5A     DD 00092                  PUSHL    ESMQ_N                                    : 1615
                                   66     01     FB 00094     CALLS    #1, REWRITE_RECORD
                                   59     DD 00097  7$:       PUSHL    SJH                                       : 1619
              00000000G  EF        01     FB 00099            CALLS    #1, APPLY_SJH_OPTIONS
                                   55     50     D0 000A0     MOVL     R0, STATUS_2
                                   38     55     E9 000A3     BLBC     STATUS_2, 10$                             : 1620
                             0100  C9     D4 000A6            CLRL     256(SJH)                                  : 1623
                         52  00F4  C9     D0 000AA            MOVL     244(SJH), SQR_N                           : 1624
                                   2D  13 000AF  8$:          BEQL     10$                                       : 1625
                                   52     DD 000B1            PUSHL    SQR_N                                     : 1630
              00000000G  EF        01     FB 000B3            CALLS    #1, READ_RECORD
                                   53     50     D0 000BA     MOVL     R0, SQR
                                   53     DD 000BD            PUSHL    SQR                                       : 1631
                                   59     DD 000BF            PUSHL    SJH
              00000000G  EF        02     FB 000C1            CALLS    #2, APPLY_SQR_OPTIONS
                                   06     55     E9 000C8     BLBC     STATUS_2, 9$                              : 1632
                                   03     50     E8 000CB     BLBS     STATUS_3, 9$
                                   55     50     D0 000CE     MOVL     STATUS_3, STATUS_2
                                   54     63     D0 000D1  9$: MOVL    (SQR), SQR_NS                             : 1633
                                   52     DD 000D4            PUSHL    SQR_N                                     : 1634
                                   66     01     FB 000D6     CALLS    #1, REWRITE_RECORD
                                   52     54     D0 000D9     MOVL     SQR_NS, SQR_N                             : 1635
                                   D1  11 000DC               BRB      8$                                       : 1625
       3C        10  A9            06     E1 000DE  10$:      BBC      #6, 16(SJH), 12$                          : 1640
                                   01     DD 000E3            PUSHL    #1                                        : 1643
              00000000G  EF        01     FB 000E5            CALLS    #1, READ_RECORD
                             69    4C A0  D0 000EC            MOVL     76(SQH), (SJH)                            : 1644
                         4C  A0           58  D0 000F0        MOVL     SJH_N, 76(SQH)                            : 1645
                                   69     D5 000F4            TSTL     (SJH)                                     : 1646
                                   04  12 000F6               BNEQ     11$
                         50  A0           58  D0 000F8        MOVL     SJH_N, 80(SQH)
                             5A    0134  C9  D0 000FC  11$:   MOVL     308(SJH), ESMQ_N                          : 1647
                                   5A     DD 00101            PUSHL    ESMQ_N
              00000000G  EF        01     FB 00103            CALLS    #1, READ_RECORD
                                   5B     50     D0 0010A     MOVL     R0, ESMQ
                             0100  CB     B6 0010D            INCW     256(ESMQ)                                 : 1648
                                   58     DD 00111            PUSHL    SJH_N                                     : 1649
                                   66     01     FB 00113     CALLS    #1, REWRITE_RECORD
                                   5A     DD 00116            PUSHL    ESMQ_N                                    : 1650
                                   66     01     FB 00118     CALLS    #1, REWRITE_RECORD
                                   01     DD 0011B            PUSHL    #1                                        : 1651
                                   0C  11 0011D               BRB      13$
                             7E    58     7D 0011F  12$:      MOVQ     SJH_N, -(SP)                              : 1655
```

```
        00000000G  EF         02 FB 00122          CALLS    #2, ENQUEUE_JOB
                   5B         DD 00129             PUSHL    SJH_N                                          1656
                   66         01 FB 0012B  13$:    CALLS    #1, REWRITE RECORD
                   50         55 D0 0012E          MOVL     STATUS_2, R0                                   1659
                              04 00131             RET
```

; Routine Size: 306 bytes,   Routine Base: CODE + 01EF

SNDJBC
V04-000
$SNDACC, $SNDSMB, and $SNDJBC services
K 12
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1
Page 25
(6)
SND
V04

```
625   1660  1 ROUTINE SJC_ALTER_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
626   1661  1
627   1662  1 !++
628   1663  1 !
629   1664  1 !  FUNCTIONAL DESCRIPTION:
630   1665  1 !        This routine processes the SJC$_ALTER_QUEUE request.
631   1666  1 !
632   1667  1 !  INPUT PARAMETERS:
633   1668  1 !        SQX_N            - Record number of SQX.
634   1669  1 !        SQE              - Pointer to SQX entry.
635   1670  1 !        SMQ_N            - Record number of SMQ.
636   1671  1 !        SMQ              - Pointer to SMQ.
637   1672  1 !
638   1673  1 !  IMPLICIT INPUTS:
639   1674  1 !        MBX              - Pointer to buffered mailbox message.
640   1675  1 !
641   1676  1 !  OUTPUT PARAMETERS:
642   1677  1 !        NONE
643   1678  1 !
644   1679  1 !  IMPLICIT OUTPUTS:
645   1680  1 !        NONE
646   1681  1 !
647   1682  1 !  ROUTINE VALUE:
648   1683  1 !        Completion status to be returned to requestor.
649   1684  1 !
650   1685  1 !  SIDE EFFECTS:
651   1686  1 !        NONE
652   1687  1 !
653   1688  1 !--
654   1689  1
655   1690  2 BEGIN
656   1691  2 MAP
657   1692  2         SQE:            REF BBLOCK,    ! Pointer to SQX entry
658   1693  2         SMQ:            REF BBLOCK;    ! Pointer to SMQ
659   1694  2 LOCAL
660   1695  2         STATUS;                        ! Status return
661   1696  2
662   1697  2
663   1698  2 ! Ensure that the requestor has E access to the queue.
664   1699  2 !
665   1700  2 IF NOT CHECK_E_ACCESS(.SMQ)
666   1701  2 THEN
667   1702  2     RETURN JBC$_NOPRIV;
668   1703  2
669   1704  2
670   1705  2 ! Apply the specified queue parameter changes.
671   1706  2 !
672   1707  2 STATUS = APPLY_SMQ_OPTIONS(.SMQ);
673   1708  2 IF NOT .STATUS THEN RETURN .STATUS;
674   1709  2 UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
675   1710  2
676   1711  2
677   1712  2 ! Try to schedule jobs that may have been enabled by the changes.
678   1713  2 !
679   1714  2 FIND_PENDING_JOBS(.SMQ_N, .SMQ);
680   1715  2
681   1716  2
```

```
:    682          1717  2 REWRITE_RECORD(.SQX_N);                                                          :  1
:    683          1718  2 REWRITE_RECORD(.SMQ_N);                                                          :  1
:    684          1719  2 SS$_NORMAL                                                                       :  1
:    685          1720  1 END;                                                                             :  1
```

```
                                      0004 00000 SJC_ALTER_QUEUE:                                          :  1
                                                       .WORD     Save R2                                  :  1
                       52 00000000G  EF  9E 00002       MOVAB     REWRITE_RECORD, R2                       : 1660
                                 10  AC  DD 00009       PUSHL     SMQ                                      : 1700
             00000000G EF              01  FB 0000C     CALLS     #1, CHECK_E_ACCESS
                       08              50  E8 00013     BLBS      R0, 1$
                       50 00048020     8F  D0 00016     MOVL      #294944, R0                              : 1702
                                       04 0001D         RET
                                 10  AC  DD 0001E 1$:   PUSHL     SMQ                                      : 1707
             00000000G EF              01  FB 00021     CALLS     #1, APPLY_SMQ_OPTIONS
                       28              50  E9 00028     BLBC      STATUS, 2$                               : 1708
                       7E         OC  AC  7D 0002B      MOVQ      SMQ_N, -(SP)                             : 1709
                                 08  AC  DD 0002F       PUSHL     SQE
             00000000G EF              03  FB 00032     CALLS     #3, UPDATE_SQX_ENTRY
                       7E         OC  AC  7D 00039      MOVQ      SMQ_N, -(SP)                             : 1714
             00000000G EF              02  FB 0003D     CALLS     #2, FIND_PENDING_JOBS
                                 04  AC  DD 00044       PUSHL     SQX_N                                    : 1717
                       62              01  FB 00047     CALLS     #1, REWRITE_RECORD
                                 OC  AC  DD 0004A       PUSHL     SMQ_N                                    : 1718
                       62              01  FB 0004D     CALLS     #1, REWRITE_RECORD
                       50              01  D0 00050     MOVL      #1, R0                                   : 1720
                                       04 00053 2$:     RET
```

; Routine Size: 84 bytes,   Routine Base: CODE + 0321

```
 687     1721   1 ROUTINE SJC_ASSIGN_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
 688     1722   1
 689     1723   1 !++
 690     1724   1 !
 691     1725   1 !  FUNCTIONAL DESCRIPTION:
 692     1726   1 !      This routine processes the SJC$_ASSIGN_QUEUE (SMR$K_REDIRECT) request.
 693     1727   1 !
 694     1728   1 !  INPUT PARAMETERS:
 695     1729   1 !      SQX_N               - Record number of SQX.
 696     1730   1 !      SQE                 - Pointer to SQX entry.
 697     1731   1 !      SMQ_N               - Record number of SMQ.
 698     1732   1 !      SMQ                 - Pointer to SMQ.
 699     1733   1 !
 700     1734   1 !  IMPLICIT INPUTS:
 701     1735   1 !      MBX                 - Pointer to buffered mailbox message.
 702     1736   1 !
 703     1737   1 !  OUTPUT PARAMETERS:
 704     1738   1 !      NONE
 705     1739   1 !
 706     1740   1 !  IMPLICIT OUTPUTS:
 707     1741   1 !      NONE
 708     1742   1 !
 709     1743   1 !  ROUTINE VALUE:
 710     1744   1 !      Completion status to be returned to requestor.
 711     1745   1 !
 712     1746   1 !  SIDE EFFECTS:
 713     1747   1 !      NONE
 714     1748   1 !
 715     1749   1 !--
 716     1750   1
 717     1751   2 BEGIN
 718     1752   2 MAP
 719     1753   2         SQE:            REF BBLOCK,       ! Pointer to logical SQX entry
 720     1754   2         SMQ:            REF BBLOCK;       ! Pointer to logical SMQ
 721     1755   2 LOCAL
 722     1756   2         DSMQ_N,                           ! Record number of execution SMQ
 723     1757   2         DSMQ:           REF BBLOCK;       ! Pointer to execution SMQ
 724     1758   2
 725     1759   2
 726     1760   2 ! Pick up a pointer to the destination queue.
 727     1761   2 !
 728     1762   2 DSMQ_N = .VALUE_DESTINATION_QUEUE[0];
 729     1763   2 DSMQ = .VALUE_DESTINATION_QUEUE[1];
 730     1764   2
 731     1765   2
 732     1766   2 ! Ensure that the requestor has E access to both queues.
 733     1767   2 !
 734     1768   2 IF NOT CHECK_E_ACCESS(.SMQ)
 735     1769   2 OR NOT CHECK_E_ACCESS(.DSMQ)
 736     1770   2 THEN
 737     1771   2     RETURN JBC$_NOPRIV;
 738     1772   2
 739     1773   2
 740     1774   2 ! Ensure that the logical queue is not the same as the execution queue, and
 741     1775   2 ! that both are symbiont queues, and that the execution queue is one.
 742     1776   2 !
 743     1777   2 IF .SMQ_N EQL .DSMQ_N
```

```
  744   1778   2 OR .SMQ[SMQ$V_BATCH]
  745   1779   2 OR .DSMQ[SMQ$V_BATCH]
  746   1780   2 OR .DSMQ[SMQ$V_GENERIC_QUEUE]
  747   1781   2 OR .DSMQ[SMQ$L_ASSIGNED_QUEUE_LINK] NEQ 0
  748   1782   2 THEN
  749   1783   2       RETURN JBC$_INCQUETYP;
  750   1784   2
  751   1785   2
  752   1786   2 ! Ensure that the logical queue is not running.
  753   1787   2 !
  754   1788   2 IF .SMQ[SMQ$L_STREAM_SCT] NEQ 0
  755   1789   2 THEN
  756   1790   2       RETURN JBC$_STARTED;
  757   1791   2
  758   1792   2
  759   1793   2 ! Finally, make the data structure modification.
  760   1794   2 !
  761   1795   2 SMQ[SMQ$L_ASSIGNED_QUEUE_LINK] = .DSMQ_N;
  762   1796   2 UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
  763   1797   2 REWRITE_RECORD(.SQX_N);
  764   1798   2 REWRITE_RECORD(.SMQ_N);
  765   1799   2
  766   1800   2
  767   1801   2 SS$_NORMAL
  768   1802   1 END;
```

                                                                                                                            ; R

```
                    007C 00000 SJC_ASSIGN_QUEUE:
                                       .WORD    Save R2,R3,R4,R5,R6                    ; 1721
       56 00000000G  EF  9E 00002       MOVAB    REWRITE_RECORD, R6
       55 00000000G  EF  9E 00009       MOVAB    CHECK_E_ACCESS, R5
       54 00000000'  EF  D0 00010       MOVL     VALUE_DESTINATION_QUEUE, DSMQ_N       ; 1762
       52 00000000'  EF  D0 00017       MOVL     VALUE_DESTINATION_QUEUE+4, DSMQ       ; 1763
       53        10  AC  D0 0001E       MOVL     SMQ, R3                               ; 1768
                 53      DD 00022       PUSHL    R3
       65        01      FB 00024       CALLS    #1, CHECK_E_ACCESS
       08        50  E9  00027          BLBC     R0, 1$
                 52      DD 0002A       PUSHL    DSMQ                                  ; 1769
       65        01      FB 0002C       CALLS    #1, CHECK_E_ACCESS
       08        50  E8  0002F          BLBS     R0, 2$
       50 00048020  8F  D0 00032 1$:    MOVL     #294944, R0                          ; 1771
                 04      00039          RET
       54        0C  AC  D1 0003A 2$:    CMPL     SMQ_N, DSMQ_N                        ; 1777
                 12      13 0003E       BEQL     3$
       0E        0C  A3  E8 00040       BLBS     12(R3), 3$                           ; 1778
       0A        0C  A2  E8 00044       BLBS     12(DSMQ), 3$                         ; 1779
   05        0D  A2      02  E0 00048    BBS     #2, 13(DSMQ), 3$                      ; 1780
                 2C  A2  D5 0004D       TSTL     44(DSMQ)                             ; 1781
                 08      13 00050       BEQL     4$
       50 00048118  8F  D0 00052 3$:    MOVL     #295192, R0                          ; 1783
                 04      00059          RET
               00FC  C3  D5 0005A 4$:    TSTL     252(R3)                             ; 1788
                 08      13 0005E       BEQL     5$
       50 00048058  8F  D0 00060       MOVL     #295000, R0                          ; 1790
```

B 13

```
                                         04 00067          RET
                        2C  A3        54 DO C0068  5$:     MOVL     DSMQ_N, 44(R3)               1795
                                      53 DD 0006C          PUSHL    R3                          1796
                        7E    08   AC 7D 0006E             MOVQ     SQE, -(SP)
                 00000000G EF      03 FB 00072             CALLS    #3, UPDATE_SQX_ENTRY        1797
                                04 AC DD 00079             PUSHL    SQX_N
                        66         01 FB 0007C             CALLS    #1, REWRITE_RECORD          1798
                                0C AC DD 0007F             PUSHL    SMQ_N
                        66         01 FB 00082             CALLS    #1, REWRITE_RECORD          1802
                        50         01 DO 00085             MOVL     #1, R0
                                         04 00088          RET
```

; Routine Size: 137 bytes,   Routine Base: CODE + 0375

```
770    1803   1 ROUTINE SJC_BATCH_CHECKPOINT=
771    1804   1
772    1805   1 !++
773    1806   1 !
774    1807   1 !  FUNCTIONAL DESCRIPTION:
775    1808   1 !       This routine processes the SJC$_BATCH_CHECKPOINT request.
776    1809   1 !
777    1810   1 !  INPUT PARAMETERS:
778    1811   1 !       NONE
779    1812   1 !
780    1813   1 !  IMPLICIT INPUTS:
781    1814   1 !       MBX                 - Pointer to buffered mailbox message.
782    1815   1 !
783    1816   1 !  OUTPUT PARAMETERS:
784    1817   1 !       NONE
785    1818   1 !
786    1819   1 !  IMPLICIT OUTPUTS:
787    1820   1 !       NONE
788    1821   1 !
789    1822   1 !  ROUTINE VALUE:
790    1823   1 !       Completion status to be returned to requestor.
791    1824   1 !
792    1825   1 !  SIDE EFFECTS:
793    1826   1 !       NONE
794    1827   1 !
795    1828   1 !--
796    1829   1
797    1830   2 BEGIN
798    1831   2 LOCAL
799    1832   2       SJH_N,                          ! Record number of SJH
800    1833   2       SJH:            REF BBLOCK,      ! Pointer to SJH
801    1834   2       STATUS;                         ! Status return
802    1835   2
803    1836   2
804    1837   2 ! If the requesting process is a batch process, find the job record and store
805    1838   2 ! the checkpoint information.
806    1839   2
807    1840   2 IF .QUEUE_FAB[FAB$W_IFI] NEQ 0
808    1841   2 THEN
809    1842   3     BEGIN
810    1843   3     IF FIND_PROCESS_DATA(
811    1844   3         PDE_K_BATCH, .MBX[ACM$L_PID], FALSE;
812    1845   3         , , SJH_N)
813    1846   3     THEN
814    1847   4         BEGIN
815    1848   4         SJH = READ_RECORD(.SJH_N);
816    1849   4         STATUS = APPLY_SJH_OPTIONS(.SJH);
817    1850   4         IF NOT .STATUS THEN RETURN .STATUS;
818    1851   4         REWRITE_RECORD(.SJH_N);
819    1852   3         END;
820    1853   2     END;
821    1854   2
822    1855   2
823    1856   2 SS$_NORMAL
824    1857   1 END;
```

```
                                   0E00 00000 SJC_BATCH_CHECKPOINT:
                                                      .WORD    Save R9,R10,R11                    1803
                        00000000'  EF B5 00002        TSTW     QUEUE_FAB+2                        1840
                              36 13 00008             BEQL     1$
                              7E D4 0000A             CLRL     -(SP)                              1843
                  50 00000000'  EF D0 0000C           MOVL     MBX, R0                            1844
                          28  A0 DD 00013             PUSHL    40(R0)
                          01 DD 00016                 PUSHL    #1                                 1843
      00000000G  EF            03 FB 00018            CALLS    #3, FIND_PROCESS_DATA
                 1E            50 E9 0001F             BLBC     R0, 1$
                              5B DD 00022             PUSHL    SJH_N                              1848
      00000000G  EF            01 FB 00024            CALLS    #1, READ_RECORD
                              50 DD 0002B             PUSHL    SJH                                1849
      00000000G  EF            01 FB 0002D            CALLS    #1, APPLY_SJH_OPTIONS
                 0C            50 E9 00034             BLBC     STATUS, 2$                         1850
                              5B DD 00037             PUSHL    SJH_N                              1851
      00000000G  EF            01 FB 00039            CALLS    #1, REWRITE_RECORD
                 50            01 D0 00040 1$:         MOVL     #1, R0                             1857
                              04 00043 2$:            RET

; Routine Size:  68 bytes,    Routine Base:  CODE + 03FE
```

```
826    1858  1 ROUTINE SJC_CLOSE_DELETE=
827    1859  1
828    1860  1 !++
829    1861  1 !
830    1862  1 ! FUNCTIONAL DESCRIPTION:
831    1863  1 !     This routine processes the SJC$_CLOSE_DELETE request.
832    1864  1 !
833    1865  1 ! INPUT PARAMETERS:
834    1866  1 !     NONE
835    1867  1 !
836    1868  1 ! IMPLICIT INPUTS:
837    1869  1 !     MBX             - Pointer to buffered mailbox message.
838    1870  1 !
839    1871  1 ! OUTPUT PARAMETERS:
840    1872  1 !     NONE
841    1873  1 !
842    1874  1 ! IMPLICIT OUTPUTS:
843    1875  1 !     NONE
844    1876  1 !
845    1877  1 ! ROUTINE VALUE:
846    1878  1 !     Completion status to be returned to requestor.
847    1879  1 !
848    1880  1 ! SIDE EFFECTS:
849    1881  1 !     NONE
850    1882  1 !
851    1883  1 !--
852    1884  1
853    1885  2 BEGIN
854    1886  2 LOCAL
855    1887  2     SJH_N,                      ! Record number of SJH
856    1888  2     SJH:            REF BBLOCK;  ! Pointer to SJH
857    1889  2
858    1890  2
859    1891  2 ! Find an open job owned by this process, and dequeue it.
860    1892  2 !
861    1893  2 IF
862    1894  3     BEGIN
863    1895  3     IF FIND_PROCESS_DATA(PDE_K_OPEN_JOB, .MBX[ACM$L_PID], TRUE; , SJH_N)
864    1896  3     THEN
865    1897  3         NOT DEQUEUE_OPEN_JOB(.SJH_N; SJH)
866    1898  3     ELSE
867    1899  3         TRUE
868    1900  3     END
869    1901  2 THEN
870    1902  2     RETURN JBC$_NOOPENJOB;
871    1903  2
872    1904  2
873    1905  2 ! Delete the job.
874    1906  2 !
875    1907  2 DELETE_SJH_RECORD(.SJH_N, .SJH);
876    1908  2
877    1909  2
878    1910  2 SS$_NORMAL
879    1911  1 END;
```

```
                                    0E00 00000 SJC_CLOSE_DELETE:
                                                        .WORD     Save R9,R10,R11                      ; 1858
                                    01  DD 00002        PUSHL     #1                                   ; 1895
                    50 00000000'    EF  DO 00004        MOVL      MBX, R0
                              28    AO  DD 0000B        PUSHL     40(R0)
                                    03  DD 0000E        PUSHL     #3
        00000000G   EF              03  FB 00010        CALLS     #3, FIND_PROCESS_DATA
                    OC              50  E9 00017        BLBC      R0, 1$
                                    5A  DD 0001A        PUSHL     SJH_N                                ; 1897
        00000000G   EF              01  FB 0001C        CALLS     #1, DEQUEUE_OPEN_JOB
                    08              50  E8 00023        BLBS      R0, 2$
                    50 00048048     8F  DO 00026  1$:   MOVL      #294984, R0                          ; 1902
                                    04 0002D            RET
                    7E              5A  7D 0002E  2$:   MOVQ      SJH_N, -(SP)                         ; 1907
        00000000G   EF              02  FB 00031        CALLS     #2, DELETE_SJH_RECORD
                    50              01  DO 00038        MOVL      #1, R0                               ; 1911
                                    04 0003B            RET
; Routine Size:  60 bytes,    Routine Base:  CODE + 0442
```

```
 881   1912  1 ROUTINE SJC_CLOSE_JOB=
 882   1913  1
 883   1914  1 !++
 884   1915  1 !
 885   1916  1 ! FUNCTIONAL DESCRIPTION:
 886   1917  1 !     This routine processes the SJC$_CLOSE_JOB (SMR$K_CLSJOB) request.
 887   1918  1 !
 888   1919  1 ! INPUT PARAMETERS:
 889   1920  1 !     NONE
 890   1921  1 !
 891   1922  1 ! IMPLICIT INPUTS:
 892   1923  1 !     MBX              - Pointer to buffered mailbox message.
 893   1924  1 !
 894   1925  1 ! OUTPUT PARAMETERS:
 895   1926  1 !     NONE
 896   1927  1 !
 897   1928  1 ! IMPLICIT OUTPUTS:
 898   1929  1 !     NONE
 899   1930  1 !
 900   1931  1 ! ROUTINE VALUE:
 901   1932  1 !     Completion status to be returned to requestor.
 902   1933  1 !
 903   1934  1 ! SIDE EFFECTS:
 904   1935  1 !     NONE
 905   1936  1 !
 906   1937  1 !--
 907   1938  1
 908   1939  2 BEGIN
 909   1940  2 LOCAL
 910   1941  2         SMQ:            REF BBLOCK,       ! Pointer to job's SMQ
 911   1942  2         SMQ_N,                            ! Record number of SMQ
 912   1943  2         SJH_N,                            ! Record number of SJH
 913   1944  2         SJH:            REF BBLOCK,       ! Pointer to SJH
 914   1945  2         SRB:            BBLOCK[512],      ! Local service response block
 915   1946  2         RESULT,                           ! Result of enqueue
 916   1947  2         ESMQ:           REF BBLOCK;       ! Pointer to executor SMQ
 917   1948  2
 918   1949  2
 919   1950  2 ! Find an open job owned by this process, and dequeue it.
 920   1951  2 !
 921   1952  2 IF
 922   1953  3     BEGIN
 923   1954  3     IF FIND_PROCESS_DATA(PDE_K_OPEN_JOB, .MBX[ACM$L_PID], TRUE; , SJH_N)
 924   1955  3     THEN
 925   1956  3         NOT DEQUEUE_OPEN_JOB(.SJH_N; SJH)
 926   1957  3     ELSE
 927   1958  3         TRUE
 928   1959  3     END
 929   1960  2 THEN
 930   1961  2     RETURN JBC$_NOOPENJOB;
 931   1962  2
 932   1963  2
 933   1964  2 ! If the job is empty, delete it and return an error.
 934   1965  2 !
 935   1966  2 IF .SJH[SJH$L_FILE_LIST] EQL 0
 936   1967  2 THEN
 937   1968  3     BEGIN
```

```
 938   1969  3        DELETE_SJH_RECORD(.SJH_N, .SJH);
 939   1970  3        RETURN JBC$_EMPTYJOB;
 940   1971  2        END;
 941   1972  2
 942   1973  2    !
 943   1974  2    ! Enqueue the job on an appropriate queue.
 944   1975  2    !
 945   1976  2    SMQ_N = .SJH[SJH$L_QUEUE_LINK];
 946   1977  2    IF .SMQ_N NEQ 0
 947   1978  2    THEN
 948   1979  3        BEGIN
 949   1980  3        SMQ = READ_RECORD(.SMQ_N);
 950   1981  3        ENQUEUE_JOB(.SJH_N, .SJH; RESULT, ESMQ);
 951   1982  3        END
 952   1983  2    ELSE
 953   1984  2        ! Queue_link is corrupt, we know that the job was previously deleted,
 954   1985  2        ! so return no such job.
 955   1986  2        !
 956   1987  2        RETURN JBC$_NOSUCHJOB;
 957   1988  2
 958   1989  2    ! Return status including required output items.
 959   1990  2    !
 960   1991  2    CREATE_SRB(SRB);
 961   1992  2    IF .ITEM_PRESENT[SJC$_JOB_STATUS_OUTPUT]
 962   1993  2    THEN
 963   1994  3        BEGIN
 964   1995  3        COMPLETE_SRB_OUTPUT_ITEM(
 965   1996  3            SRB,
 966   1997  3            JOB_STATUS_MESSAGE(
 967   1998  3                .RESULT,
 968   1999  3                LOCATE_SRB_OUTPUT_ITEM(
 969   2000  3                    SRB,
 970   2001  3                    SJC$_JOB_STATUS_OUTPUT, VALUE_JOB_STATUS_OUTPUT),
 971   2002  3                .SMQ,
 972   2003  3                .SJH,
 973   2004  3                .ESMQ));
 974   2005  2        END;
 975   2006  2    SEND_SERVICE_RESPONSE_MESSAGE(SRB, JBC$_NORMAL);
 976   2007  2
 977   2008  2
 978   2009  2    REWRITE_RECORD(.SJH_N);
 979   2010  2    0
 980   2011  1    END;
```

```
                             0E1C 00000 SJC_CLOSE_JOB:
                                               .WORD    Save R2,R3,R4,R9,R10,R11              1912
             54 00000000'  EF  9E 00002        MOVAB    MBX, R4
             5E      FE00   CE  9E 00009        MOVAB    -512(SP), SP                         1954
                            01  DD 0000E        PUSHL    #1
             50             64  D0 00010        MOVL     MBX, R0
                     28     A0  DD 00013        PUSHL    40(R0)
                            03  DD 00016        PUSHL    #3
      00000000G EF          03  FB 00018        CALLS    #3, FIND_PROCESS_DATA
```

```
                        52          5A DO 0001F           MOVL      R10, R2
                        0F          50 E9 00022           BLBC      R0, 1$
                                    52 DD 00025           PUSHL     SJH_N                                    : 1956
        00000000G  EF   )1 FB 00027           CALLS     #1, DEQUEUE_OPEN_JOB
                        59          5B DO 0002E           MOVL      R11, R9
                        08          50 E8 00031           BLBS      R0, 2$
                   50 00048048   8F DO 00034  1$:         MOVL      #294984, R0                              : 1961
                                    04 0003B           RET
                        00F4       C9 D5 0003C  2$:        TSTL      244(SJH)                                 : 1966
                        13          12 00040           BNEQ      3$
                        0204       8F BB 00042           PUSHR     #^M<R2,R9>                                : 1969
        00000000G  EF   02 FB 00046           CALLS     #2, DELETE_SJH_RECORD
                   50 00048070   8F DO 0004D           MOVL      #295024, R0                              : 1970
                                    04 00054           RET
                        50          0134       C9 DO 00055  3$:     MOVL      308(SJH), SMQ_N               : 1976
                        19          13 0005A           BEQL      4$                                        : 1977
                        50          DD 0005C           PUSHL     SMQ_N                                     : 1980
        00000000G  EF   01 FB 0005E           CALLS     #1, READ_RECORD
                        53          50 DO 00065           MOVL      R0, SMQ
                        0204       8F BB 00068           PUSHR     #^M<R2,R9>                                : 1981
        00000000G  EF   02 FB 0006C           CALLS     #2, ENQUEUE_JOB
                        08          11 00073           BRB       5$                                        : 1977
                   50 00048040   8F DO 00075  4$.        MOVL      #294976, R0                              : 1987
                                    04 0007C           RET
                        5E          DD 0007D  5$:         PUSHL     SP                                       : 1991
        00000000G  EF   01 FB 0007F           CALLS     #1, CREATE_SRB
                        2D          0BCB       C4 E9 00086           BLBC      ITEM_PRESENT+11, 6$           : 1992
                        0A08       8F BB 0008B           PUSHR     #^M<R3,R9,R11>                            : 2002
                        10AA       C4 9F 0008F           PUSHAB    VALUE_JOB_STATUS_OUTPUT                   : 1999
                        7E          58 8F 9A 00093           MOVZBL    #88, -(SP)
                        14          AE 9F 00097           PUSHAB    SRB
        00000000G  EF   03 FB 0009A           CALLS     #3, LOCATE_SRB_OUTPUT_ITEM
                        50          DD 000A1           PUSHL     R0
                        5A          DD 000A3           PUSHL     RESULT                                    : 1998
        00000000G  EF   05 FB 000A5           CALLS     #5, JOB_STATUS_MESSAGE
                        50          DD 000AC           PUSHL     R0
                        04          AE 9F 000AE           PUSHAB    SRB                                       : 1995
        00000000G  EF   02 FB 000B1           CALLS     #2, COMPLETE_SRB_OUTPUT_ITEM
                        00040001   8F DD 000B8  6$:        PUSHL     #262145                                 : 2006
                        04          AE 9F 000BE           PUSHAB    SRB
        00000000G  EF   02 FB 000C1           CALLS     #2, SEND_SERVICE_RESPONSE_MESSAGE
                        52          DD 000C8           PUSHL     SJH_N                                    : 2009
        00000000G  EF   01 FB 000CA           CALLS     #1, REWRITE_RECORD
                        50          D4 000D1           CLRL      R0                                        : 2011
                                    04 000D3           RET
```

; Routine Size: 212 bytes,   Routine Base: CODE + 047E

```
 982     2012   1   ROUTINE SJC_CREATE_JOB(SQX_N,SQE,SMQ_N,SMQ)=
 983     2013   1
 984     2014   1   !++
 985     2015   1   !
 986     2016   1   !   FUNCTIONAL DESCRIPTION:
 987     2017   1   !       This routine processes the SJC$_CREATE_JOB (SMR$K_CREJOB) request.
 988     2018   1   !
 989     2019   1   !   INPUT PARAMETERS:
 990     2020   1   !       SQX_N                  - Record number of SQX.
 991     2021   1   !       SQE                    - Pointer to SQX entry.
 992     2022   1   !       SMQ_N                  - Record number of SMQ.
 993     2023   1   !       SMQ                    - Pointer to SMQ.
 994     2024   1   !
 995     2025   1   !   IMPLICIT INPUTS:
 996     2026   1   !       MBX                    - Pointer to buffered mailbox message.
 997     2027   1   !
 998     2028   1   !   OUTPUT PARAMETERS:
 999     2029   1   !       NONE
1000     2030   1   !
1001     2031   1   !   IMPLICIT OUTPUTS:
1002     2032   1   !       NONE
1003     2033   1   !
1004     2034   1   !   ROUTINE VALUE:
1005     2035   1   !       Completion status to be returned to requestor.
1006     2036   1   !
1007     2037   1   !   SIDE EFFECTS:
1008     2038   1   !       NONE
1009     2039   1   !
1010     2040   1   !--
1011     2041   1
1012     2042   2   BEGIN
1013     2043   2   MAP
1014     2044   2           SQE:            REF BBLOCK,       ! Pointer to SQX entry
1015     2045   2           SMQ:            REF BBLOCK;       ! Pointer to SMQ
1016     2046   2   LOCAL
1017     2047   2           SQH:            REF BBLOCK,       ! Pointer to SQH
1018     2048   2           SJH_N,                            ! Record number of SJH
1019     2049   2           SJH:            REF BBLOCK,       ! Pointer to SJH
1020     2050   2           SRB:            BBLOCK[512],      ! Local service response block
1021     2051   2           STATUS_1,                         ! Status return
1022     2052   2           STATUS_2;                         ! Status return
1023     2053   2
1024     2054   2
1025     2055   2   ! Ensure that the requestor has W access to the queue.
1026     2056   2   !
1027     2057   2   IF NOT CHECK_W_ACCESS(.SMQ)
1028     2058   2   THEN
1029     2059   2       RETURN JBC$_NOPRIV;
1030     2060   2
1031     2061   2
1032     2062   2   ! Ensure that the requestor has W access to the log queue if specified.
1033     2063   2   !
1034     2064   2   IF .ITEM_PRESENT[SJC$_LOG_QUEUE]
1035     2065   2   THEN
1036     2066   2       IF NOT CHECK_W_ACCESS(.VALUE_LOG_QUEUE[1])
1037     2067   2       THEN
1038     2068   2           RETURN JBC$_NOPRIV;
```

```
: 1039    2069   2
: 1040    2070   2
: 1041    2071   2  ! If this process already has an open job, delete it.
: 1042    2072   2  !
: 1043    2073   2  IF
: 1044    2074   3      BEGIN
: 1045    2075   3      IF FIND_PROCESS_DATA(PDE_K_OPEN_JOB, .MBX[ACM$L_PID], TRUE; , SJH_N)
: 1046    2076   3      THEN
: 1047    2077   3          DEQUEUE_OPEN_JOB(.SJH_N; SJH)
: 1048    2078   3      ELSE
: 1049    2079   3          FALSE
: 1050    2080   3      END
: 1051    2081   2  THEN
: 1052    2082   2      DELETE_SJH_RECORD(.SJH_N, .SJH);
: 1053    2083   2
: 1054    2084   2
: 1055    2085   2  ! Allocate the job record.
: 1056    2086   2  !
: 1057    2087   2  STATUS_1 = CREATE_SJH_RECORD(.SMQ_N, .SMQ; SJH_N, SJH);
: 1058    2088   2  IF NOT .STATUS_1 THEN RETURN .STATUS_1;
: 1059    2089   2
: 1060    2090   2
: 1061    2091   2  ! Apply options to the job record.
: 1062    2092   2  !
: 1063    2093   2  STATUS_2 = APPLY_SJH_OPTIONS(.SJH);
: 1064    2094   2  IF NOT .STATUS_2
: 1065    2095   2  THEN
: 1066    2096   3      BEGIN
: 1067    2097   3      DELETE_SJH_RECORD(.SJH_N, .SJH);
: 1068    2098   3      RETURN .STATUS_2;
: 1069    2099   2      END;
: 1070    2100   2
: 1071    2101   2
: 1072    2102   2  ! Default the form if necessary.
: 1073    2103   2  !
: 1074    2104   2  IF NOT .SMQ[SMQ$V_BATCH] AND .SJH[SJH$L_FORM_LINK] EQL 0
: 1075    2105   2  THEN
: 1076    2106   3      BEGIN
: 1077    2107   3      LOCAL
: 1078    2108   3          SFM_N;                                ! Record number of SFM
: 1079    2109   3
: 1080    2110   3      IF NOT FIND_FORM_NUMBER(0; SFM_N)
: 1081    2111   3      THEN
: 1082    2112   4          BEGIN
: 1083    2113   4          DELETE_SJH_RECORD(.SJH_N, .SJH);
: 1084    2114   4          RETURN JBC$_NOSUCHFORM;
: 1085    2115   3          END;
: 1086    2116   3      SJH[SJH$L_FORM_LINK] = .SFM_N;
: 1087    2117   2      END;
: 1088    2118   2
: 1089    2119   2
: 1090    2120   2  ! Return the job identification.
: 1091    2121   2  !
: 1092    2122   2  RSP[RSP_W_ENTRY_NUMBER] = .SJH[SYM$L_ENTRY_NUMBER];
: 1093    2123   2
: 1094    2124   2
: 1095    2125   2  ! Record the open job in the process data base for ready access.
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

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```
: 1096    2126  2 !
: 1097    2127  2 ENTER_PROCESS_DATA(PDE_K_OPEN_JOB, .MBX[ACM$L_PID], .SJH_N);
: 1098    2128  2
: 1099    2129  2
: 1100    2130  2 ! Enqueue the job on the open job queue.
: 1101    2131  2 !
: 1102    2132  2 SQH = READ_RECORD(SQH$K_RECNO);
: 1103    2133  2 SJH[SYM$L_LINK] = .SQH[SQH$L_OPEN_LIST];
: 1104    2134  2 SQH[SQH$L_OPEN_LIST] = .SJH_N;
: 1105    2135  2 IF .SJH[SYM$L_LINK] EQL 0 THEN SQH[SQH$L_OPEN_LIST_END] = .SJH_N;
: 1106    2136  2 SMQ[SMQ$W_OPEN_JOB_COUNT] = .SMQ[SMQ$W_OPEN_JOB_COUNT] + 1;
: 1107    2137  2
: 1108    2138  2
: 1109    2139  2 ! Return status including required output items.
: 1110    2140  2 !
: 1111    2141  2 CREATE_SRB(SRB);
: 1112    2142  2 IF .ITEM_PRESENT[SJC$_ENTRY_NUMBER_OUTPUT]
: 1113    2143  2 THEN
: 1114    2144  3     BEGIN
: 1115    2145  3     LOCAL
: 1116    2146  3         P:              REF VECTOR[,WORD];
: 1117    2147  3
: 1118    2148  3     P = LOCATE_SRB_OUTPUT_ITEM(
: 1119    2149  3         SRB,
: 1120    2150  3         SJC$_ENTRY_NUMBER_OUTPUT, VALUE_ENTRY_NUMBER_OUTPUT);
: 1121    2151  3     P[0] = .SJH[SYM$L_ENTRY_NUMBER];
: 1122    2152  3     COMPLETE_SRB_OUTPUT_ITEM(SRB, 2);
: 1123    2153  3     END;
: 1124    2154  2 SEND_SERVICE_RESPONSE_MESSAGE(SRB, JBC$_NORMAL);
: 1125    2155  2
: 1126    2156  2
: 1127    2157  2 REWRITE_RECORD(.SJH_N);
: 1128    2158  2 REWRITE_RECORD(.SMQ_N);
: 1129    2159  2 REWRITE_RECORD(SQH$K_RECNO);
: 1130    2160  2 0
: 1131    2161  1 END;
```

```
                              0EFC 00000 SJ_CREATE_JOB:
                                                .WORD   Save R2,R3,R4,R5,R6,R7,R9,R10,R11      : 2012
               57 00000000G  EF 9E 00002        MOVAB   CHECK_W_ACCESS, R7
               56 00000000G  EF 9E 00009        MOVAB   REWRITE_RECORD, R6
               55 00000000G  EF 9E 00010        MOVAB   DELETE_SJH_RECORD, R5
               54 00000000'  EF 9E 00017        MOVAB   MBX, R4
               5E    FE00     CE 9E 0001E        MOVAB   -512(SP), SP
               52       10    AC D0 00023        MOVL    SMQ, R2                                : 2057
                             52    DD 00027       PUSHL   R2
               67             01 FB 00029        CALLS   #1, CHECK_W_ACCESS
               10             50 E9 0002C        BLBC    R0, 1$
         12  0BCC  C4         01 E1 0002F        BBC     #1, ITEM_PRESENT+12, 2$              : 2064
                  10C2  C4    DD 00035           PUSHL   VALUE_LOG_QUEUE+4                     : 2066
               67             01 FB 00039        CALLS   #1, CHECK_W_ACCESS
               08             50 E8 0003C        BLBS    R0, 2$
               50 00048020    8F D0 0003F 1$:    MOVL    #294944, R0                          : 2068
```

```
                                04 00046              RET
                          01    DD 00047 2$:         PUSHL     #1
              50          64    DO 00049              MOVL      MBX, RO
                    28    AO    DD 0004C              PUSHL     40(RO)
                          03    DD 0004F              PUSHL     #3
     0000C000G  EF        03    FB 00051              CALLS     #3, FIND_PROCESS_DATA
              53          5A    DO 00058              MOVL      R10, R3
              16          50    E9 0005B              BLBC      RO, 3$
                          53    DD 0005E              PUSHL     SJH_N
     00000000G  EF        01    FB 00060              CALLS     #1, DEQUEUE_OPEN_JOB
              59          5B    DO 00067              MOVL      R11, R9
              07          50    E9 0006A              BLBC      RO, 3$
                    0208  8F    BB 0006D              PUSHR     #^M<R3,R9>
              65          02    FB 00071              CALLS     #2, DELETE_SJH_RECORD
                          52    DD 00074 3$:         PUSHL     R2
                    OC    AC    DD 00076              PUSHL     SMQ_N
     00000000G  EF        02    FB 00079              CALLS     #2, CREATE_SJH_RECORD
              53          5A    DO 00080              MOVL      R10, R3
              59          5B    DO 00083              MOVL      R11, R9
              01          50    E8 00086              BLBS      STATUS_1, 4$
                          04    00089              RET
                          59    DD 0008A 4$:         PUSHL     SJH
     00000000G  EF        01    FB 0008C              CALLS     #1, APPLY_SJH_OPTIONS
              5A          50    DO 00093              MOVL      RO, STATUS_2
              OB          5A    E8 00096              BLBS      STATUS_2, 5$
                    0208  8F    BB 00099              PUSHR     #^M<R3,R9>
              65          02    FB 0009D              CALLS     #2, DELETE_SJH_RECORD
              50          5A    DO 000A0              MOVL      STATUS_2, RO
                          04    000A3              RET
              26    OC    A2    E8 000A4 5$:         BLBS      12(R2), 7$
                    00FC  C9    D5 000A8              TSTL      252(SJH)
                    20    12    000AC              BNEQ      7$
                          7E    D4 000AE              CLRL      -(SP)
     00000000G  EF        01    FB 000B0              CALLS     #1, FIND_FORM_NUMBER
              OF          50    E8 000B7              BLBS      RO, 6$
                    0208  8F    BB 000BA              PUSHR     #^M<R3,R9>
              65          02    FB 000BE              CALLS     #2, DELETE_SJH_RECORD
              50  00048158  8F  DO 000C1              MOVL      #295256, RO
                          04    000C8              RET
         00FC  C9          5A   DO 000C9 6$:         MOVL      SFM_N, 252(SJH)
         7A    A4    08    A9   B0 000CE 7$:         MOVW      8(SJH), RSP+2
                          53    DD 000D3              PUSHL     SJH_N
              50          64    DO 000D5              MOVL      MBX, RO
                    28    AO    DD 000D8              PUSHL     40(RO)
                          03    DD 000DB              PUSHL     #3
     00000000G  EF        03    FB 000DD              CALLS     #3, ENTER_PROCESS_DATA
                          01    DD 000E4              PUSHL     #1
     00000000G  EF        01    FB 000E6              CALLS     #1, READ_RECORD
              69    4C    AO    DO 000ED              MOVL      76(SQH), (SJH)
         4C    AO          53   DO 000F1              MOVL      SJH_N, 76(SQH)
                          69    D5 000F5              TSTL      (SJR)
                          04    12 000F7              BNEQ      8$
              50    AO          53   DO 000F9              MOVL      SJH_N, 80(SQH)
                    0100  C2    B6 000FD 8$:         INCW      256(R2)
                          5E    DD 00101              PUSHL     SF
     00000000G  EF        01    FB 00103              CALLS     #1, CREATE_SRB
                    OBC3  C4    95 0010A              TSTB      ITEM_PRESENT+3
```

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2141

2142

```
                                     20  18  0010E          BGEQ      9$
                          0C42       C4  9F  00110          PUSHAB    VALUE_ENTRY_NUMBER_OUTPUT                     2148
                                     1F  DD  00114          PUSHL     #31
                          08         AE  9F  00116          PUSHAB    SRB
              00000000G  EF          03  FB  00119          CALLS     #3, LOCATE_SRB_OUTPUT_ITEM
                          60  08     A9  B0  00120          MOVW      8(SJH), (P)                                   2151
                                     02  DD  00124          PUSHL     #2                                            2152
                          04         AE  9F  00126          PUSHAB    SRB
              00000000G  EF          02  FB  00129          CALLS     #2, COMPLETE_SRB_OUTPUT_ITEM
                      00040001       8F  DD  00130 9$:      PUSHL     #262145                                       2154
                          04         AE  9F  00136          PUSHAB    SRB
              00000000G  EF          02  FB  00139          CALLS     #2, SEND_SERVICE_RESPONSE_MESSAGE
                                     53  DD  00140          PUSHL     SJH_N                                         2157
                          66         01  FB  00142          CALLS     #1, REWRITE_RECORD
                          0C         AC  DD  00145          PUSHL     SMQ_N                                         2158
                          66         01  FB  00148          CALLS     #1, REWRITE_RECORD
                                     01  DD  0014B          PUSHL     #1                                            2159
                          66         01  FB  0014D          CALLS     #1, REWRITE_RECORD
                                     50  D4  00150          CLRL      R0                                            2161
                                     04  00152             RET
```

; Routine Size: 339 bytes,   Routine Base: CODE + 0552

```
1133    2162  1  ROUTINE SJC_CREATE_QUEUE=
1134    2163  1
1135    2164  1  !++
1136    2165  1  !
1137    2166  1  !  FUNCTIONAL DESCRIPTION:
1138    2167  1  !       This routine processes the SJC$_CREATE_QUEUE (SMR$K_INITIAL) request.
1139    2168  1  !
1140    2169  1  !  INPUT PARAMETERS:
1141    2170  1  !       NONE
1142    2171  1  !
1143    2172  1  !  IMPLICIT INPUTS:
1144    2173  1  !       MBX                 - Pointer to buffered mailbox message.
1145    2174  1  !
1146    2175  1  !  OUTPUT PARAMETERS:
1147    2176  1  !       NONE
1148    2177  1  !
1149    2178  1  !  IMPLICIT OUTPUTS:
1150    2179  1  !       NONE
1151    2180  1  !
1152    2181  1  !  ROUTINE VALUE:
1153    2182  1  !       Completion status to be returned to requestor.
1154    2183  1  !
1155    2184  1  !  SIDE EFFECTS:
1156    2185  1  !       NONE
1157    2186  1  !
1158    2187  1  !--
1159    2188  1
1160    2189  2  BEGIN
1161    2190  2  LOCAL
1162    2191  2          SQX_P:          REF BBLOCK,     ! Pointer to predecessor of SQX
1163    2192  2          SQX_NP,                         ! Record number of predecessor of SQX
1164    2193  2          SQX:            REF BBLOCK,     ! Pointer to SQX
1165    2194  2          SQX_N,                          ! Record number of SQX
1166    2195  2          SQE:            REF BBLOCK,     ! Pointer to SQX entry
1167    2196  2          SMQ_N,                          ! Record number of SMQ
1168    2197  2          SMQ:            REF BBLOCK,     ! Pointer to SMQ
1169    2198  2          STATUS_1,                       ! Status return
1170    2199  2          STATUS_2,                       ! Status return
1171    2200  2          STATUS_3,                       ! Status return
1172    2201  2          STATUS_4;                       ! Status return
1173    2202  2
1174    2203  2
1175    2204  2  ! Ensure that the requestor has OPER privilege.
1176    2205  2  !
1177    2206  2  IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
1178    2207  2  THEN
1179    2208  2      RETURN JBC$_NOOPER;
1180    2209  2
1181    2210  2
1182    2211  2  ! Read the queue header.
1183    2212  2  !
1184    2213  2  SQX_P = READ_RECORD(SQX_NP = SQH$K_RECNO);
1185    2214  2
1186    2215  2
1187    2216  2  ! Create the queue record.
1188    2217  2  !
1189    2218  2  STATUS_1 = CREATE_SMQ_RECORD( ; SMQ_N, SMQ);
```

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$SNDACC, $SNDSMB, and $SNDJBC services

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```
 1190   2219   2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
 1191   2220   2
 1192   2221   2
 1193   2222   2 ! Apply options to the queue record.
 1194   2223   2 !
 1195   2224   2 STATUS_2 = APPLY_SMQ_OPTIONS(.SMQ);
 1196   2225   2 IF NOT .STATUS_2
 1197   2226   2 THEN
 1198   2227   3     BEGIN
 1199   2228   3     DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
 1200   2229   3     RETURN .STATUS_2;
 1201   2230   2     END;
 1202   2231   2
 1203   2232   2
 1204   2233   2 ! Default the form if necessary.
 1205   2234   2 !
 1206   2235   2 IF NOT .SMQ[SMQ$V_BATCH] AND .SMQ[SMQ$L_FORM_LINK] EQL 0
 1207   2236   2 THEN
 1208   2237   3     BEGIN
 1209   2238   3     LOCAL
 1210   2239   3         SFM_N;                                  ! Record number of SFM
 1211   2240   3
 1212   2241   3     IF NOT FIND_FORM_NUMBER(0; SFM_N)
 1213   2242   3     THEN
 1214   2243   4         BEGIN
 1215   2244   4         DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
 1216   2245   4         RETURN JBC$_NOSUCHFORM;
 1217   2246   3         END;
 1218   2247   3     SMQ[SMQ$L_FORM_LINK] = .SFM_N;
 1219   2248   2     END;
 1220   2249   2
 1221   2250   2
 1222   2251   2 SQX_N = .SQX_P[SQH$L_QUEUE_INDEX_LIST];
 1223   2252   2 WHILE .SQX_N NEQ 0 DO
 1224   2253   3     BEGIN
 1225   2254   3     SQX = READ_RECORD(.SQX_N);
 1226   2255   3     SQE = SQX[SYM$T_DATA];
 1227   2256   3     INCR SQE_N FROM 0 TO SQX$K_ENTRIES-1 DO
 1228   2257   4         BEGIN
 1229   2258   4         IF CH$RCHAR(SQE[SQX$T_NAME]) EQL 0
 1230   2259   4         THEN
 1231   2260   5             BEGIN
 1232   2261   5             UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
 1233   2262   5             IF .ITEM_PRESENT[SJC$_CREATE_START]
 1234   2263   5             THEN
 1235   2264   5                 RETURN SJC_START_QUEUE(.SQX_N, .SQE, .SMQ_N, .SMQ)
 1236   2265   5             ELSE
 1237   2266   6                 BEGIN
 1238   2267   6                 REWRITE_RECORD(.SQX_N);
 1239   2268   6                 REWRITE_RECORD(.SMQ_N);
 1240   2269   6                 RETURN SS$_NORMAL;
 1241   2270   5                 END;
 1242   2271   5             END
 1243   2272   4         ELSE
 1244   2273   5             BEGIN
 1245   2274   5             CASE CH$COMPARE(
 1246   2275   5                 CH$RCHAR(SMQ[SMQ$T_NAME]), SMQ[SMQ$T_NAME]+1,
```

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$SNDACC, $SNDSMB, and $SNDJBC services

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```
: 1247    2276  5              CH$RCHAR(SQE[SQX$T_NAME]), SQE[SQX$T_NAME]+1,
: 1248    2277  5              %C' ')
: 1249    2278  5          FROM -1 TO 1 OF
: 1250    2279  5          SET
: 1251    2280  5
: 1252    2281  5
: 1253    2282  5          [-1]:
: 1254    2283  6              BEGIN
: 1255    2284  6              LOCAL
: 1256    2285  6                  SQX_S:          REF BBLOCK,
: 1257    2286  6                  SQX_NS,
: 1258    2287  6                  SQX_NT,
: 1259    2288  6                  SQX_T:          REF BBLOCK,
: 1260    2289  6                  T1:             BBLOCK[SQX$S_SQX],
: 1261    2290  6                  T2:             BBLOCK[SQX$S_SQX],
: 1262    2291  6                  STATUS;
: 1263    2292  6
: 1264    2293  6
: 1265    2294  6              STATUS = ALLOCATE_RECORD( ; SQX_NT, SQX_T);
: 1266    2295  6              IF NOT .STATUS
: 1267    2296  6              THEN
: 1268    2297  7                  BEGIN
: 1269    2298  7                  DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
: 1270    2299  7                  RETUPN .STATUS;
: 1271    2300  6                  END;
: 1272    2301  6
: 1273    2302  6
: 1274    2303  6              UPDATE_SQX_ENTRY(T1, .SMQ_N, .SMQ);
: 1275    2304  6
: 1276    2305  6
: 1277    2306  6              WHILE TRUE DO
: 1278    2307  7                  BEGIN
: 1279    2308  7                  CH$MOVE(
: 1280    2309  7                      SQX$S_SQX,
: 1281    2310  7                      SQX[SYM$T_DATA] +
: 1282    2311  7                      (SQX$R_ENTRIES - 1) * SQX$S_SQX,
: 1283    2312  7                      T2);
: 1284    2313  7                  CH$MOVE(
: 1285    2314  7                      .SQX + SYM$S_SYM - .SQE - SQX$S_SQX,
: 1286    2315  7                      .SQE,
: 1287    2316  7                      .SQE + SQX$S_SQX);
: 1288    2317  7                  CH$MOVE(
: 1289    2318  7                      SQX$S_SQX,
: 1290    2319  7                      T1,
: 1291    2320  7                      .SQE);
: 1292    2321  7                  CH$MOVE(
: 1293    2322  7                      SQX$S_SQX,
: 1294    2323  7                      T2,
: 1295    2324  7                      T1);
: 1296    2325  7                  IF CH$RCHAR(T1[SQX$T_NAME]) EQL 0
: 1297    2326  7                  THEN
: 1298    2327  8                      BEGIN
: 1299    2328  8                      DEALLOCATE_RECORD(.SQX_NT);
: 1300    2329  8                      EXITLOOP;
: 1301    2330  7                      END;
: 1302    2331  7                  IF .SQX[SYM$L_LINK] EQL 0
: 1303    2332  7                  THEN
```

SNDJBC
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$SNDACC, $SNDSMB, and $SNDJBC services

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```
1304    2333  8                                BEGIN
1305    2334  8                                SQX[SYM$L_LINK] = .SQX_NT;
1306    2335  8                                SQX_T[SYM$B_TYPE] = SYM$K_SQX;
1307    2336  8                                CH$MOVE(
1308    2337  8                                    SQX$S_SQX,
1309    2338  8                                    T1,
1310    2339  8                                    SQX_T[SYM$T_DATA]);
1311    2340  8                                REWRITE_RECORD(.SQX_NT);
1312    2341  8                                EXITLOOP;
1313    2342  8                                END;
1314    2343  7                            SQX_S = READ_RECORD(SQX_NS = .SQX[SYM$L_LINK]);
1315    2344  7                            REWRITE_RECORD(.SQX_N);
1316    2345  7                            SQX_N = .SQX_NS;
1317    2346  7                            SQX = .SQX_S;
1318    2347  7                            SQE = SQX[SYM$T_DATA];
1319    2348  6                            END;
1320    2349  6
1321    2350  6
1322    2351  6                        IF .ITEM_PRESENT[SJC$_CREATE_START]
1323    2352  6                        THEN
1324    2353  6                            RETURN SJC_START_QUEUE(.SQX_N, .SQE, .SMQ_N, .SMQ)
1325    2354  6                        ELSE
1326    2355  7                            BEGIN
1327    2356  7                            REWRITE_RECORD(.SQX_N);
1328    2357  7                            REWRITE_RECORD(.SMQ_N);
1329    2358  7                            RETURN SS$_NORMAL;
1330    2359  6                            END;
1331    2360  5                    END;
1332    2361  5
1333    2362  5
1334    2363  5            [0]:
1335    2364  6                BEGIN
1336    2365  6                LOCAL
1337    2366  6                    STATUS;
1338    2367  6
1339    2368  6
1340    2369  6                DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
1341    2370  6
1342    2371  6
1343    2372  6                SMQ = READ_RECORD(SMQ_N = .SQE[SQX$L_QUEUE_LINK]);
1344    2373  6                IF .SMQ[SMQ$V_STOPPED] AND .SMQ[SMQ$C_STREAM_SCT] EQL 0
1345    2374  6                THEN
1346    2375  7                    BEGIN
1347    2376  7                    STATUS = APPLY_SMQ_OPTIONS(.SMQ);
1348    2377  7                    IF NOT .STATUS THEN RETURN .STATUS;
1349    2378  7                    UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
1350    2379  6                    END;
1351    2380  6
1352    2381  6
1353    2382  6                IF .ITEM_PRESENT[SJC$_CREATE_START]
1354    2383  6                THEN
1355    2384  6                    RETURN SJC_START_QUEUE(.SQX_N, .SQE, .SMQ_N, .SMQ)
1356    2385  6                ELSE
1357    2386  7                    BEGIN
1358    2387  7                    REWRITE_RECORD(.SQX_N);
1359    2388  7                    REWRITE_RECORD(.SMQ_N);
1360    2389  7                    RETURN SS$_NORMAL;
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

F 14
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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SND
V04

```
: 1361    2390 6                              END:
: 1362    2391 5                          END;
: 1363    2392 5
: 1364    2393 5
: 1365    2394 5              [1]:
: 1366    2395 5                  SQE = .SQE + SQX$S_SQX;
: 1367    2396 5
: 1368    2397 5
: 1369    2398 5              TES:
: 1370    2399 4          END;
: 1371    2400 3      END;
: 1372    2401 3
: 1373    2402 3
: 1374    2403 3      RELEASE_RECORD(.SQX_NP);
: 1375    2404 3      SQX_NP = .SQX_N;
: 1376    2405 3      SQX_P = .SQX;
: 1377    2406 3      SQX_N = .SQX[SYM$L_LINK];
: 1378    2407 2      END;
: 1379    2408 2
: 1380    2409 2
: 1381    2410 2  STATUS_4 = ALLOCATE_RECORD( ; SQX_N, SQX);
: 1382    2411 2  IF NOT .STATUS_4
: 1383    2412 2  THEN
: 1384    2413 3      BEGIN
: 1385    2414 3      DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
: 1386    2415 3      RETURN .STATUS_4;
: 1387    2416 2      END;
: 1388    2417 2
: 1389    2418 2
: 1390    2419 2  SQX[SYM$B_TYPE] = SYM$K_SQX;
: 1391    2420 2  SQE = SQX[SYM$T_DATA];
: 1392    2421 2  UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
: 1393    2422 2  IF .SQX_NP EQL SQH$K_RECNO
: 1394    2423 2      THEN SQX_P[SQH$L_QUEUE_INDEX_LIST] = .SQX_N
: 1395    2424 2      ELSE SQX_P[SYM$L_LINK] = .SQX_N;
: 1396    2425 2
: 1397    2426 2
: 1398    2427 2  REWRITE_RECORD(.SQX_NP);
: 1399    2428 2  IF .ITEM_PRESENT[SJC_CREATE_START]
: 1400    2429 2  THEN
: 1401    2430 2      SJC_START_QUEUE(.SQX_N, .SQE, .SMQ_N, .SMQ)
: 1402    2431 2  ELSE
: 1403    2432 3      BEGIN
: 1404    2433 3      REWRITE_RECORD(.SQX_N);
: 1405    2434 3      REWRITE_RECORD(.SMQ_N);
: 1406    2435 3      SS$_NORMAL
: 1407    2436 3      END
: 1408    2437 1  END;
```

```
              OFFC 00000 SJC_CREATE_QUEUE:
                              .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11      : 2162
       5E      98  AE  9E 00002      MOVAB  -104(SP), SP
       50 00000000' EF  D0 00006     MOVL   MBX, R0                            : 2206
```

```
          08      06  A0          02 E0 0000D         BBS    #2, 6(R0), 1$
                         50 00042894 8F D0 00012      MOVL   #272532, R0                              2208
                                     04 00019         RET
                  10  AE             01 D0 0001A 1$:   MOVL   #1, SQX_NP                               2213
                                     01 DD 0001E      PUSHL  #1
          00000000G EF               01 FB 00020      CALLS  #1, READ_RECORD
                  04  AE             50 D0 00027      MOVL   R0, SQX_P
          00000000G EF               00 FB 0002B      CALLS  #0, CREATE_SMQ_RECORD                    2218
                         58          5A D0 00032      MOVL   R10, R8
                         56          5B D0 00035      MOVL   R11, R6
                         01          50 E8 00038      BLBS   STATUS_1, 2$                             2219
                                     04 0003B         RET
                         56          DD 0003C 2$:      PUSHL  SMQ                                      2224
          00000000G EF               01 FB 0003E      CALLS  #1, APPLY_SMQ_OPTIONS
                         52          50 D0 00045      MOVL   R0, STATUS_2                             2225
                         7F          52 E9 00048      BLBC   STATUS_2, 11$
                  28          0C  A6 E8 0004B         BLBS   12(SMQ), 4$                              2235
                         70  A6      D5 0004F         TSTL   112(SMQ)
                         23          12 00052         BNEQ   4$
                         7E          D4 00054         CLRL   -(SP)                                    2241
          00000000G EF               01 FB 00056      CALLS  #1, FIND_FORM_NUMBER
                         13          50 E8 0005D      BLBS   R0, 3$
                         56          DD 00060         PUSHL  SMQ                                      2244
                         58          DD 00062         PUSHL  SMQ_N
          00000000G EF               02 FB 00064      CALLS  #2, DELETE_SMQ_RECORD
                         50 00048158 8F D0 0006B      MOVL   #295256, R0                             2245
                                     04 00072         RET
                  70  A6             5A D0 00073 3$:   MOVL   SFM_N, 112(SMQ)                         2247
          50      04  AE 00000064 8F C1 00077 4$:     ADDL3  #100, SQX_P, R0                         2251
                         6E          60 D0 00080      MOVL   (R0), SQX_N
                         03          12 00083 5$:      BNEQ   6$                                       2252
                                     0125 31 00085    BRW    20$
                         6E          DD 00088 6$:      PUSHL  SQX_N                                    2254
          00000000G EF               01 FB 0008A      CALLS  #1, READ_RECORD
                         59          50 D0 00091      MOVL   R0, SQX
                         57      0C  A9 9E 00094      MOVAB  12(R9), SQE                              2255
                             0C  AE  D4 00098         CLRL   SQE_N                                    2256
                         67          95 0009B 7$:     TSTB   (SQE)                                    2258
                         03          12 0009D         BNEQ   8$
                                     00DB 31 0009F    BRW    17$
                         51      00B0 C6 9A 000A2 8$:  MOVZBL 176(SMQ), R1                            2275
                         50          67 9A 000A7      MOVZBL (SQE), R0                                2276
          50      20  00B1 C6       51 2D 000AA      CMPC5  R1, 177(SMQ), #32, R0, 1(SQE)
                             01  A7     000B1
                         03          1B 000B3         BLEQU  9$
                                     00D3 31 000B5    BRW    19$
                         03          1F 000B8 9$:     BLSSU  10$
                                     008D 31 000BA    BRW    16$
          00000000G EF               00 FB 000BD 10$: CALLS  #0, ALLOCATE_RECORD                     2294
                         52          50 D0 000C4      MOVL   R0, STATUS
                         03          52 E8 000C7      BLBS   STATUS, 12$                              2295
                                     00F3 31 000CA 11$: BRW   21$
                         56          DD 000CD 12$:    PUSHL  SMQ                                      2303
                         58          DD 000CF         PUSHL  SMQ_N
                             48  AE  9F 000D1         PUSHAB T1
          00000000G EF               03 FB 000D4      CALLS  #3, UPDATE_SQX_ENTRY
          18  AE     01C4 C9         28 28 000DB 13$: MOVC3  #40, 452(SQX), -T2                       2308
```

```
              50                    59      57  C3 000E2          SUBL3    SQE, SQX, R0                    ; 2314
                                    50      C0  9E 000E6  01D8    MOVAB    472(R0), R0
        28  A7                      67      50  28 000EB          MOVC3    R0, (SQE), 40(SQE)              ; 2316
              67           40       AE      28  28 000F0          MOVC3    #40, T1, (SQE)                 ; 2320
        40  AE             18       AE      28  28 000F5          MOVC3    #40, T2, T1                    ; 2321
                                    40      AE  95 000FB          TSTB     T1                             ; 2325
                                            0B  12 000FE          BNEQ     14$
                                            5A  DD 00100          PUSHL    SQX_NT                         ; 2328
              00000000G             EF      01  FB 00102          CALLS    #1, DEALLOCATE_RECORD
                                            7E  11 00109          BRB      18$                            ; 2327
                                            69  D5 0010B  14$:    TSTL     (SQX)                          ; 2331
                                            12  12 0010D          BNEQ     15$
                                    69      5A  D0 0010F          MOVL     SQX_NT, (SQX)                  ; 2334
                           04       AB      05  90 00112          MOVB     #5, -4(SQX_T)                  ; 2335
        0C  AB             40       AE      28  28 00116          MOVC3    #40, T1, T2(SQX_T)             ; 2339
                                            5A  DD 0011C          PUSHL    SQX_NT                         ; 2340
                                    00DD    31  31 0011E          BRW      25$
                                    08      AE  69  D0 00121 15$: MOVL     (SQX), SQX_NS                  ; 2343
                                    08      AE  DD 00125          PUSHL    SQX_NS
              00000000G             EF      01  FB 00128          CALLS    #1, READ_RECORD
                           14       AE      50  D0 0012F          MOVL     R0, SQX_S
                                            6E  DD 00133          PUSHL    SQX_N                          ; 2344
              00000000G             EF      01  FB 00135          CALLS    #1, REWRITE_RECORD
                                    6E      08  AE  D0 0013C      MOVL     SQX_NS, SQX_N                  ; 2345
                                    59      14  AE  D0 00140      MOVL     SQX_S, SQX                     ; 2346
                                    57      0C  A9  9E 00144      MOVAB    12(R9), SQE                    ; 2347
                                            91  11 00148          BRB      13$                            ; 2306
                                            56  DD 0014A  16$:    PUSHL    SMQ                            ; 2369
                                            58  DD 0014C          PUSHL    SMQ_N
              00000000G             EF      02  FB 0014E          CALLS    #2, DELETE_SMQ_RECORD
                                    58      24  A7  D0 00155      MOVL     36(SQE), SMQ_N                 ; 2372
                                            58  DD 00159          PUSHL    SMQ_N
              00000000G             EF      01  FB 0015B          CALLS    #1, READ_RECORD
                                    56      50  D0 00162          MOVL     R0, SMQ
        1F          11       A6      01  E1 00165                 BBC      #1, 17(SMQ), 18$               ; 2373
                                    00FC    C6  D5 0016A          TSTL     252(SMQ)
                                            19  12 0016E          BNEQ     18$
                                            56  DD 00170          PUSHL    SMQ                            ; 2376
              00000000G             EF      01  FB 00172          CALLS    #1, APPLY_SMQ_OPTIONS
                                    01      50  E8 00179          BLBS     STATUS, 17$                    ; 2377
                                            04  0017C            RET
                                            56  DD 0017D  17$:    PUSHL    SMQ                            ; 2378
                                    7E      57  7D 0017F          MOVQ     SQE, -(SP)
              00000000G             EF      03  FB 00182          CALLS    #3, UPDATE_SQX_ENTRY
                                            7A  11 00189  18$:    BRB      26$
                                    57      28  C0 0018B  19$:    ADDL2    #40, SQE                       ; 2395
        FF06        0C  AE          01      0B  F1 0018E          ACBL     #11, #1, SQE_N, 7$             ; 2256
                                    10      AE  DD 00195          PUSHL    SQY_NP                         ; 2403
              00000000G             EF      01  FB 00198          CALLS    #1, RELEASE_RECORD
                                    6E      10  AE  D0 0019F      MOVL     SQX_N, SQX_NP                  ; 2404
                                    59      04  AE  D0 001A3      MOVL     SQX, SQX_P                     ; 2405
                                    6E      69  D0 001A7          MOVL     (SQX), SQX_N                   ; 2406
                                    FED6    31  31 001AA          BRW      5$                             ; 2252
              00000000G             EF      00  FB 001AD  20$:    CALLS    #0, ALLOCATE_RECORD            ; 2410
                                    52      50  D0 001B4          MOVL     R0, STATUS_4
                                    6E      5A  D0 001B7          MOVL     R10, (SP)
                                    59      5B  D0 001BA          MOVL     R11, R9
```

```
                              OF          52 E8 001BD          BLBS    STATUS_4, 22$                    ; 2411
                                          56 DD 001C0 21$:     PUSHL   SMQ                              ; 2414
                                          58 DD 001C2          PUSHL   SMQ_N
                  00000000G EF             02 FB 001C4          CALLS   #2, DELETE_SMQ_RECORD
                              50          52 D0 001CB          MOVL    STATUS_4, R0                     ; 2415
                                          04 001CE             RET
                  04 A9                    05 90 001CF 22$:     MOVB    #5, 4(SQX)                       ; 2419
                     57          0C        A9 9E 001D3          MOVAB   12(R9), SQE                      ; 2420
                                          56 DD 001D7          PUSHL   SMQ                              ; 2421
                     7E                    57 7D 001D9          MOVQ    SQE, -(SP)
                  00000000G EF             03 FB 001DC          CALLS   #3, UPDATE_SQX_ENTRY
                     01          10        AE D1 001E3          CMPL    SQX_NP, #1                       ; 2422
                                          0E 12 001E7          BNEQ    23$
         50          04 AE 00000064        8F C1 001E9          ADDL3   #100, SQX_P, R0                 ; 2423
                              60          6E D0 001F2          MOVL    SQX_N, (R0)
                                          04 11 001F5          BRB     24$
                  04 BE                    6E D0 001F7 23$:     MOVL    SQX_N, @SQX_P                    ; 2424
                                  10      AE DD 001FB 24$:     PUSHL   SQX_NP                           ; 2427
                  00000000G EF             01 FB 001FE 25$:     CALLS   #1, REWRITE_RECORD
                       00000000'          EF 95 00205 26$:     TSTB    ITEM_PRESENT+2                   ; 2428
                                          0E 18 0020B          BGEQ    27$
                                          56 DD 0020D          PUSHL   SMQ                              ; 2430
                     7E                    57 7D 0020F          MOVQ    SQE, -(SP)
                                  0C      AE DD 00212          PUSHL   SQX_N
                  0000V CF                 04 FB 00215          CALLS   #4, SJC_START_QUEUE
                                          04 0021A             RET
                                          6E DD 0021B 27$:     PUSHL   SQX_N                            ; 2433
                  00000000G EF             01 FB 0021D          CALLS   #1, REWRITE_RECORD
                                          58 DD 00224          PUSHL   SMQ_N                            ; 2434
                  00000000G EF             01 FB 00226          CALLS   #1, REWRITE_RECORD
                              50          01 D0 0022D          MOVL    #1, R0                           ; 2432
                                          04 00230             RET                                      ; 2437
```

; Routine Size: 561 bytes,   Routine Base: CODE + 06A5

```
: 1410    2438  1  ROUTINE SJC_DEASSIGN_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
: 1411    2439  1
: 1412    2440  1  !++
: 1413    2441  1  !
: 1414    2442  1  !  FUNCTIONAL DESCRIPTION:
: 1415    2443  1  !      This routine processes the SJC$_DEASSIGN_QUEUE (SMR$K_REDIRECT to null)
: 1416    2444  1  !      request.
: 1417    2445  1  !
: 1418    2446  1  !  INPUT PARAMETERS:
: 1419    2447  1  !      SQX_N           - Record number of SQX.
: 1420    2448  1  !      SQE             - Pointer to SQX entry.
: 1421    2449  1  !      SMQ_N           - Record number of SMQ.
: 1422    2450  1  !      SMQ             - Pointer to SMQ.
: 1423    2451  1  !
: 1424    2452  1  !  IMPLICIT INPUTS:
: 1425    2453  1  !      MBX             - Pointer to buffered mailbox message.
: 1426    2454  1  !
: 1427    2455  1  !  OUTPUT PARAMETERS:
: 1428    2456  1  !      NONE
: 1429    2457  1  !
: 1430    2458  1  !  IMPLICIT OUTPUTS:
: 1431    2459  1  !      NONE
: 1432    2460  1  !
: 1433    2461  1  !  ROUTINE VALUE:
: 1434    2462  1  !      Completion status to be returned to requestor.
: 1435    2463  1  !
: 1436    2464  1  !  SIDE EFFECTS:
: 1437    2465  1  !      NONE
: 1438    2466  1  !
: 1439    2467  1  !--
: 1440    2468  1
: 1441    2469  2  BEGIN
: 1442    2470  2  MAP
: 1443    2471  2          SQE:            REF BBLOCK,     ! Pointer to logical SQX entry
: 1444    2472  2          SMQ:            REF BBLOCK;     ! Pointer to SMQ
: 1445    2473  2  LOCAL
: 1446    2474  2          AUX_N,                          ! Record number of auxiliary record
: 1447    2475  2          AUX:            REF BBLOCK;     ! Pointer to auxiliary record
: 1448    2476  2
: 1449    2477  2
: 1450    2478  2  ! Ensure that the requestor has E access to the queue.
: 1451    2479  2  !
: 1452    2480  2  IF NOT CHECK_E_ACCESS(.SMQ)
: 1453    2481  2  THEN
: 1454    2482  2      RETURN JBC$_NOPRIV;
: 1455    2483  2
: 1456    2484  2
: 1457    2485  2  ! Ensure that the queue is assigned.
: 1458    2486  2  !
: 1459    2487  2  IF .SMQ[SMQ$L_ASSIGNED_QUEUE_LINK] EQL 0
: 1460    2488  2  THEN
: 1461    2489  2      RETURN JBC$_NOTASSIGN;
: 1462    2490  2
: 1463    2491  2
: 1464    2492  2  ! Revoke the assignment.
: 1465    2493  2  !
: 1466    2494  2  SMQ[SMQ$L_ASSIGNED_QUEUE_LINK] = 0;
```

```
: 1467      2495   2 SMQ[SMQ$V_STOPPED] = TRUE;
: 1468      2496   2 UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
: 1469      2497   2 REWRITE_RECORD(.SQX_N);
: 1470      2498   2 REWRITE_RECORD(.SMQ_N);
: 1471      2499   2
: 1472      2500   2
: 1473      2501   2 SS$_NORMAL
: 1474      2502   1 END;
```

```
                                     000C 00000 SJC_DEASSIGN_QUEUE:
                                                       .WORD    Save R2,R3                                      ; 2438
                       53 00000000G  EF  9E 00002       MOVAB    REWRITE_RECORD, R3
                       52          10 AC  D0 00009       MOVL     SMQ, R2                                        ; 2480
                                   52     DD 0000D       PUSHL    R2
       00000000G EF                01  FB 0000F          CALLS    #1, CHECK_E_ACCESS
                       08          50 E8 00016          BLBS     R0, 1$
                       50 00048020 8F  D0 00019          MOVL     #294944, R0                                    ; 2482
                                   04     00020          RET
                                2C A2  D5 00021 1$:      TSTL     44(R2)                                         ; 2487
                                   08  12 00024          BNEQ     2$
                       50 00048130 8F  D0 00026          MOVL     #295216, R0                                    ; 2489
                                   04     0002D          RET
                                2C A2  D4 0002E 2$:      CLRL     44(R2)                                         ; 2494
              11 A2                02  88 00031          BISB2    #2, 17(R2)                                     ; 2495
                                   52  DD 00035          PUSHL    R2                                             ; 2496
                    7E          08 AC  7D 00037          MOVQ     SQE, -(SP)
       00000000G EF                03  FB 0003B          CALLS    #3, UPDATE_SQX_ENTRY
                          04 AC  DD 00042                PUSHL    SQX_N                                          ; 2497
                       63          01  FB 00045          CALLS    #1, REWRITE_RECORD
                          0C AC  DD 00048                PUSHL    SMQ_N                                          ; 2498
                       63          01  FB 0004B          CALLS    #1, REWRITE_RECORD
                       50          01  D0 0004E          MOVL     #1, R0                                         ; 2502
                                   04     00051          RET
```

; Routine Size: 82 bytes,   Routine Base: CODE + 08D6

SNDJBC
V04-000
$SNDACC, $SNDSMB, and $SNDJBC services
L 14
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1
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SN
V0

```
: 1476      2503   1 ROUTINE SJC_DEFINE_CHARACTERISTIC=
: 1477      2504   1
: 1478      2505   1 !++
: 1479      2506   1 !
: 1480      2507   1 ! FUNCTIONAL DESCRIPTION:
: 1481      2508   1 !       This routine processes the SJC$_DEFINE_CHARACTERISTIC request.
: 1482      2509   1 !
: 1483      2510   1 ! INPUT PARAMETERS:
: 1484      2511   1 !       NONE
: 1485      2512   1 !
: 1486      2513   1 ! IMPLICIT INPUTS:
: 1487      2514   1 !       MBX             - Pointer to buffered mailbox message.
: 1488      2515   1 !
: 1489      2516   1 ! OUTPUT PARAMETERS:
: 1490      2517   1 !       NONE
: 1491      2518   1 !
: 1492      2519   1 ! IMPLICIT OUTPUTS:
: 1493      2520   1 !       NONE
: 1494      2521   1 !
: 1495      2522   1 ! ROUTINE VALUE:
: 1496      2523   1 !       Completion status to be returned to requestor.
: 1497      2524   1 !
: 1498      2525   1 ! SIDE EFFECTS:
: 1499      2526   1 !       NONE
: 1500      2527   1 !
: 1501      2528   1 !--
: 1502      2529   1
: 1503      2530   2 BEGIN
: 1504      2531   2 LOCAL
: 1505      2532   2       SCX_P:          REF BBLOCK,     ! Pointer to predecessor of SCX
: 1506      2533   2       SCX_NP,                         ! Record number of predecessor of SCX
: 1507      2534   2       SCX:            REF BBLOCK,     ! Pointer to SCX
: 1508      2535   2       SCX_N,                          ! Record number of SCX
: 1509      2536   2       SCE:            REF BBLOCK,     ! Pointer to SCX entry
: 1510      2537   2       STATUS_1;                       ! Status return
: 1511      2538   2
: 1512      2539   2
: 1513      2540   2 ! Ensure that the requestor has OPER privilege.
: 1514      2541   2 !
: 1515      2542   2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
: 1516      2543   2 THEN
: 1517      2544   2       RETURN JBC$_NOOPER;
: 1518      2545   2
: 1519      2546   2 ! Read the queue header.
: 1520      2547   2 !
: 1521      2548   2 !
: 1522      2549   2 SCX_P = READ_RECORD(SCX_NP = SQH$K_RECNO);
: 1523      2550   2
: 1524      2551   2
: 1525      2552   2 SCX_N = .SCX_P[SQH$L_CHARACTERISTIC_LIST];
: 1526      2553   2 WHILE .SCX_N NEQ 0 DO
: 1527      2554   3       BEGIN
: 1528      2555   3       SCX = READ_RECORD(.SCX_N);
: 1529      2556   3       SCE = SCX[SYM$T_DATA];
: 1530      2557   3       INCR SCE_N FROM 0 TO SCX$K_ENTRIES-1 DO
: 1531      2558   4               BEGIN
: 1532      2559   4               IF CH$RCHAR(SCE[SCX$T_NAME]) EQL 0
```

```
 1533     2560  4          THEN
 1534     2561  5              BEGIN
 1535     2562  5              CH$WCHAR(
 1536     2563  5                  .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1537     2564  5                  SCE[SCX$T_NAME]);
 1538     2565  5              CH$MOVE(
 1539     2566  5                  .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1540     2567  5                  .VALUE_CHARACTERISTIC_NAME[SDSC_A_POINTER],
 1541     2568  5                  SCE[SCX$T_NAME] + 1);
 1542     2569  5              SCE[SCX$B_NUMBER] = .VALUE_CHARACTERISTIC_NUMBER;
 1543     2570  5              REWRITE_RECORD(.SCX_N);
 1544     2571  5              RETURN SS$_NORMAL;
 1545     2572  5              END
 1546     2573  4          ELSE
 1547     2574  5              BEGIN
 1548     2575  5              CASE CH$COMPARE(
 1549     2576  5                  .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1550     2577  5                  .VALUE_CHARACTERISTIC_NAME[SDSC_A_POINTER],
 1551     2578  5                  CH$RCHAR(SCE[SCX$T_NAME]), SCE[SCX$T_NAME]+1,
 1552     2579  5                  %C' ')
 1553     2580  5              FROM -1 TO 1 OF
 1554     2581  5                  SET
 1555     2582  5
 1556     2583  5
 1557     2584  5                  [-1]:
 1558     2585  6                      BEGIN
 1559     2586  6                      LOCAL
 1560     2587  6                          SCX_S:              REF BBLOCK,
 1561     2588  6                          SCX_NS,
 1562     2589  6                          SCX_NT,
 1563     2590  6                          SCX_T:              REF BBLOCK,
 1564     2591  6                          T1:                 BBLOCK[SCX$S_SCX],
 1565     2592  6                          T2:                 BBLOCK[SCX$S_SCX],
 1566     2593  6                          STATUS;
 1567     2594  6
 1568     2595  6
 1569     2596  6                      STATUS = ALLOCATE_RECORD( ; SCX_NT, SCX_T);
 1570     2597  6                      IF NOT .STATUS THEN RETURN .STATUS;
 1571     2598  6
 1572     2599  6
 1573     2600  6                      CH$FILL(0, SCX$S_SCX, T1);
 1574     2601  6                      CH$WCHAR(
 1575     2602  6                          .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1576     2603  6                          T1[SCX$T_NAME]);
 1577     2604  6                      CH$MOVE(
 1578     2605  6                          .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1579     2606  6                          .VALUE_CHARACTERISTIC_NAME[SDSC_A_POINTER],
 1580     2607  6                          T1[SCX$T_NAME] + 1);
 1581     2608  6                      T1[SCX$B_NUMBER] = .VALUE_CHARACTERISTIC_NUMBER;
 1582     2609  6
 1583     2610  6
 1584     2611  6                      WHILE TRUE DO
 1585     2612  7                          BEGIN
 1586     2613  7                          CH$MOVE(
 1587     2614  7                              SCX$S_SCX,
 1588     2615  7                              SCX[SYM$T_DATA] +
 1589     2616  7                                  (SCX$R_ENTRIES - 1) * SCX$S_SCX,
```

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SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 54   SN
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```
 1590    2617  7                                          T2);
 1591    2618  7                                  CH$MOVE(
 1592    2619  7                                      .SCX + SYM$S_SYM - .SCE - SCX$S_SCX,
 1593    2620  7                                      .SCE,
 1594    2621  7                                      .SCE + SCX$S_SCX);
 1595    2622  7                                  CH$MOVE(
 1596    2623  7                                      SCX$S_SCX,
 1597    2624  7                                      T1,
 1598    2625  7                                      .SCE);
 1599    2626  7                                  CH$MOVE(
 1600    2627  7                                      SCX$S_SCX,
 1601    2628  7                                      T2,
 1602    2629  7                                      T1);
 1603    2630  7                                  IF CH$RCHAR(T1[SCX$T_NAME]) EQL 0
 1604    2631  7                                  THEN
 1605    2632  8                                      BEGIN
 1606    2633  8                                      REWRITE_RECORD(.SCX_N);
 1607    2634  8                                      DEALLOCATE_RECORD(.SCX_NT);
 1608    2635  8                                      EXITLOOP;
 1609    2636  7                                      END;
 1610    2637  7                                  IF .SCX[SYM$L_LINK] EQL 0
 1611    2638  7                                  THEN
 1612    2639  8                                      BEGIN
 1613    2640  8                                      SCX[SYM$L_LINK] = .SCX_NT;
 1614    2641  8                                      SCX_T[SYM$B_TYPE] = SYM$K_SCX;
 1615    2642  8                                      CH$MOVE(
 1616    2643  8                                          SCX$S_SCX,
 1617    2644  8                                          T1,
 1618    2645  8                                          SCX_T[SYM$T_DATA]);
 1619    2646  8                                      REWRITE_RECORD(.SCX_NT);
 1620    2647  8                                      REWRITE_RECORD(.SCX_N);
 1621    2648  8                                      EXITLOOP;
 1622    2649  7                                      END;
 1623    2650  7                                  SCX_S = READ_RECORD(SCX_NS = .SCX[SYM$L_LINK]);
 1624    2651  7                                  REWRITE_RECORD(.SCX_N);
 1625    2652  7                                  SCX_N = .SCX_NS;
 1626    2653  7                                  SCX = .SCX_S;
 1627    2654  7                                  SCE = SCX[SYM$T_DATA];
 1628    2655  6                                  END;
 1629    2656  6
 1630    2657  6
 1631    2658  6                          RETURN SS$_NORMAL;
 1632    2659  5                          END;
 1633    2660  5
 1634    2661  5
 1635    2662  5                  [0]:
 1636    2663  6                      BEGIN
 1637    2664  6                      SCE[SCX$B_NUMBER] = .VALUE_CHARACTERISTIC_NUMBER;
 1638    2665  6                      REWRITE_RECORD(.SCX_N);
 1639    2666  6                      RETURN SS$_NORMAL;
 1640    2667                          END;
 1641    2668  5
 1642    2669  5
 1643    2670  5                  [1]:
 1644    2671  5                      SCE = .SCE + SCX$S_SCX;
 1645    2672  5
 1646    2673  5
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

B 15
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

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SND
V04

```
; 1647    2674  5                     TES;
; 1648    2675  4                 END;
; 1649    2676  3             END;
; 1650    2677  3
; 1651    2678  3
; 1652    2679  3         RELEASE_RECORD(.SCX_NP);
; 1653    2680  3         SCX_NP = .SCX_N;
; 1654    2681  3         SCX_P = .SCX;
; 1655    2682  3         SCX_N = .SCX[SYM$L_LINK];
; 1656    2683  3         END;
; 1657    2684  2
; 1658    2685  2
; 1659    2686  2     STATUS_1 = ALLOCATE_RECORD( ; SCX_N, SCX);
; 1660    2687  2     IF NOT .STATUS_1 THEN RETURN .STATUS_1;
; 1661    2688  2
; 1662    2689  2
; 1663    2690  2     SCX[SYM$B_TYPE] = SYM$K_SCX;
; 1664    2691  2     SCE = SCX[SYM$T_DATA];
; 1665    2692  2     CH$WCHAR(
; 1666    2693  2         .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
; 1667    2694  2         SCE[SCX$T_NAME]);
; 1668    2695  2     CH$MOVE(
; 1669    2696  2         .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
; 1670    2697  2         .VALUE_CHARACTERISTIC_NAME[SDSC_A_POINTER],
; 1671    2698  2         SCE[SCX$T_NAME] + 1);
; 1672    2699  2     SCE[SCX$B_NUMBER] = .VALUE_CHARACTERISTIC_NUMBER;
; 1673    2700  2     IF .SCX_NP EQL SQH$K_RECNO
; 1674    2701  2         THEN SCX_P[SQH$L_CHARACTERISTIC_LIST] = .SCX_N
; 1675    2702  2         ELSE SCX_P[SYM$L_LINK] = .SCX_N;
; 1676    2703  2
; 1677    2704  2
; 1678    2705  2     REWRITE_RECORD(.SCX_N);
; 1679    2706  2     REWRITE_RECORD(.SCX_NP);
; 1680    2707  2     SS$_NORMAL
; 1681    2708  1     END;
```

```
                                OFFC 00000 SJC_DEFINE_CHARACTERISTIC:
                                                      .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11    ; 2503
                          5E        A8   AE  9E 00002  MOVAB    -88(SP), SP
                          50 00000000'  EF  D0 00006  MOVL     MBX, R0                                 ; 2542
                08    06  A0             02  E0 0000J  BBS      #2, 6(R0), 1$
                          50 00042894   8F  D0 00012  MOVL     #272532, R0                             ; 2544
                                        04  D0 00019  RET
                          08  AE        01  D0 0001A 1$: MOVL   #1, SCX_NP                              ; 2549
                                        01  DD 0001E  PUSHL    #1
          00000000G EF                  01  FB 00020  CALLS    #1, READ_RECORD
                          59            50  D0 00027  MOVL     R0, SCX_P
                          58     10     A9  D0 0002A  MOVL     16(SCX_P), SCX_N                         ; 2552
                                03      12 0002E 2$:  BNEQ     3$                                       ; 2553
                                011B    31 00030  BRW          15$
                          58            DD 00033 3$:  PUSHL    SCX_N
          00000000G EF                  01  FB 00035  CALLS    #1, READ_RECORD                         ; 2555
                          57            50  D0 0003C  MOVL     R0, SCX
```

```
                             56        0C      A7  9E 0003F            MOVAB   12(R7), SCE                                           2556
                                       04      AE  D4 00043            CLRL    SCE_N                                                 2557
                             50 00000000' EF   3C 00046 4$:            MOVZWL  VALUE_CHARACTERISTIC_NAME, R0                         2563
                                       66      95 0004D                TSTB    (SCE)                                                 2559
                                       0F      12 0004F                BNEQ    6$
                             66        50      90 00051                MOVB    R0, (SCE)                                             2564
            01 A6 00000000'  FF        50      28 00054                MOVC3   R0, @VALUE_CHARACTERISTIC_NAME+2, 1(SCE)             2568
                                     00C3      31 0005D 5$:            BRW     13$                                                   2569
                             51        66      9A 00060 6$:            MOVZBL  (SCE), R1                                             2578
   51       20 00000000'     FF        50      2D 00063                CMPC5   R0, @VALUE_CHARACTERISTIC_NAME+2, #32, R1, -
                                01 A6      0006C                               1(SCE)
                                       03      1B 0006E                BLEQU   7$
                                     00BA      31 00070                BRW     14$
                                       E8      1E 00073 7$:            BGEQU   5$
            00000000G         EF        00      FB 00075               CALLS   #0, ALLOCATE_RECORD                                   2596
                                       01      50 E8 0007C             BLBS    STATUS, 8$                                            2597
                                       04 0007F                        RET
   21       00                6E        00      2C 00080 8$:           MOVC5   #0, (SP), #0, #33, T1                                 2600
                                   34  AE         00085
            35        34      AE 00000000'  EF   90 00087              MOVB    VALUE_CHARACTERISTIC_NAME, T1                         2603
   35       AE 00000000'      FF C0000000'  EF   28 0008F              MOVC3   VALUE_CHARACTERISTIC_NAME, -                          2607
                                                                               @VALUE_CHARACTERISTIC_NAME+2, T1+1
                      54      AE 00000000'  EF   90 0009C              MOVB    VALUE_CHARACTERISTIC_NUMBER, T1+32                    2608
            10  AE    01DA    C7        21      28 000A4 9$:           MOVC3   #33, 474(SCX), T2                                     2613
                50            57        56      C3 000AB               SUBL3   SCE, SCX, R0                                          2619
                50            01DF      C0      9E 000AF               MOVAB   479(R0), R0
   21       A6                66        50      28 000B4               MOVC3   R0, (SCE), 33(SCE)                                    2621
            66        34      AE        21      28 000B9               MOVC3   #33, T1, (SCE)                                        2625
   34       AE        10      AE        21      28 000BE               MOVC3   #33, T2, T1                                           2626
                                   34  AE       95 000C4               TSTB    T1                                                    2630
                                       15      12 000C7                BNEQ    10$
                                       58      DD 000C9                PUSHL   SCX_N                                                 2633
            00000000G         EF        01      FB 000CB               CALLS   #1, REWRITE_RECORD
                                       5A      DD 000D2                PUSHL   SCX_NT                                                2634
            00000000G         EF        01      FB 000D4               CALLS   #1, DEALLOCATE_RECORD
                                     00C6      31 000DB                BRW     19$                                                   2632
                                       67      D5 000DE 10$:           TSTL    (SCX)                                                 2637
                                       1B      12 000E0                BNEQ    12$
                                       5A      D0 000E2                MOVL    SCX_NT, (SCX)                                         2640
                      04      AB        01      90 000E5               MOVB    #1, 4(SCX_T)                                          2641
   0C       AB        34      AE        21      28 000E9               MOVC3   #33, T1, T2(SCX_T)                                    2645
                                       5A      DD 000EF                PUSHL   SCX_NT                                               2646
            00000000G         EF        01      FB 000F1               CALLS   #1, REWRITE_RECORD
                                       58      DD 000F8 11$:           PUSHL   SCX_N                                                2647
                                     00A0      31 000FA                BRW     18$
                                       6E      67 D0 000FD 12$:        MOVL    (SCX), SCX_NS                                        2650
                                       6E      DD 00100                PUSHL   SCX_NS
            00000000G         EF        01      FB 00102               CALLS   #1, READ_RECORD
                      0C      AE        50      D0 00109               MOVL    R0, SCX_S
                                       58      DD 0010D                PUSHL   SCX_N
            00000000G         EF        01      FB 0010F               CALLS   #1, REWRITE_RECORD                                   2651
                                       58      6E D0 00116             MOVL    SCX_NS, SCX_N                                        2652
                                       57  0C  AE D0 00119             MOVL    SCX_S, SCX                                           2653
                                       56  0C  A7 9E 0011D             MOVAB   12(R7), SCE                                          2654
                                       81      11 00121                BRB     9$                                                   2611
            20      A6 00000000' EF     90 00123 13$:                  MOVB    VALUE_CHARACTERISTIC_NUMBER, 32(SCE)                 2664
                                       CB      11 0012B                BRB     11$                                                  2665
```

```
                                56          21 C0 0012D 14$:   ADDL2   #33, SCE                                              : 2671
        FFOF      04  AE        01          0E F1 00130        ACBL    #14, #1, SCE_N, 4$                                    : 2557
                                        08  AE DD 00137        PUSHL   SCX_NP                                                : 2679
                    00000000G   EF       01 ıB 0013A          CALLS   #1, RELEASE_RECORD
                          08    AE       58 D0 00141          MOVL    SCX_N, SCX_NP                                         : 2680
                                59       57 D0 00145          MOVL    SCX, SCX_P                                            : 2681
                                58       67 D0 00148          MOVL    (SCX), SCX_N                                          : 2682
                                     FEE0 31 )014B            BRW     2$                                                   : 2553
                    00000000G   EF       00 FB 0014E 15$:     CALLS   #0, ALLOCATE_RECORD                                   : 2686
                                58       5A D0 00155          MOVL    R10, R8
                                57       5B D0 00158          MOVL    R11, R7
                                49       50 E9 0015B          BLBC    STATUS_1, 20$
                          04    A7       01 90 0015E          MOVB    #1, 4(SCX)                                           : 2687
                                56    0C A7 9E 00162          MOVAB   12(R7), SCE                                          : 2690
                                66 00000000' EF 90 00166      MOVB    VALUE_CHARACTERISTIC_NAME, (SCE)                     : 2691
        01  A6 00000000' FF 00000000' EF 28 0016D            MOVC3   VALUE_CHARACTERISTIC_NAME, -                          : 2694
                                                              @VALUE_CHARACTERISTIC_NAME+2, 1(SCE)                          : 2698
                          20    A6 00000000' EF 90 0017A      MOVB    VALUE_CHARACTERISTIC_NUMBER, 32(SCE)                  : 2699
                                01       08 AE D1 00182       CMPL    SCX_NP, #1                                           : 2700
                                     06 12 00186              BNEQ    16$
                          10    A9       58 D0 00188          MOVL    SCX_N, 16(SCX_P)                                     : 2701
                                     03 11 0018C              BRB     17$
                                69       58 D0 0018E 16$:     MOVL    SCX_N, (SCX_P)                                       : 2702
                                58       DD 00191 17$:        PUSHL   SCX_N                                                : 2705
                    00000000G   EF       01 FB 00193          CALLS   #1, REWRITE_RECORD
                          08    AE       DD 0019A             PUSHL   SCX_NP                                               : 2706
                    00000000G   EF       01 FB 0019D 18$:     CALLS   #1, REWRITE_RECORD
                                50       01 D0 001A4 19$:     MOVL    #1, R0                                               : 2708
                                     04 001A7 20$:            RET
```

; Routine Size: 424 bytes,   Routine Base: CODE + 0928

```
1683    2709   1  ROUTINE SJC_DEFINE_FORM=
1684    2710   1
1685    2711   1  !++
1686    2712   1  !
1687    2713   1  ! FUNCTIONAL DESCRIPTION:
1688    2714   1  !      This routine processes the SJC$_DEFINE_FORM request.
1689    2715   1  !
1690    2716   1  ! INPUT PARAMETERS:
1691    2717   1  !      NONE
1692    2718   1  !
1693    2719   1  ! IMPLICIT INPUTS:
1694    2720   1  !      MBX              - Pointer to buffered mailbox message.
1695    2721   1  !
1696    2722   1  ! OUTPUT PARAMETERS:
1697    2723   1  !      NONE
1698    2724   1  !
1699    2725   1  ! IMPLICIT OUTPUTS:
1700    2726   1  !      NONE
1701    2727   1  !
1702    2728   1  ! ROUTINE VALUE:
1703    2729   1  !      Completion status to be returned to requestor.
1704    2730   1  !
1705    2731   1  ! SIDE EFFECTS:
1706    2732   1  !      NONE
1707    2733   1  !
1708    2734   1  !--
1709    2735   1
1710    2736   2  BEGIN
1711    2737   2  LOCAL
1712    2738   2          SFX_P:           REF BBLOCK,     ! Pointer to predecessor of SFX
1713    2739   2          SFX_NP,                          ! Record number of predecessor of SFX
1714    2740   2          SFX:             REF BBLOCK,     ! Pointer to SFX
1715    2741   2          SFX_N,                           ! Record number of SFX
1716    2742   2          SFE:             REF BBLOCK,     ! Pointer to SFX entry
1717    2743   2          SFM_N,                           ! Record number of SFM
1718    2744   2          SFM:             REF BBLOCK,     ! Pointer to SFM
1719    2745   2          STATUS_1,                        ! Status return
1720    2746   2          STATUS_2,                        ! Status return
1721    2747   2          STATUS_3,                        ! Status return
1722    2748   2          STATUS_4;                        ! Status return
1723    2749   2
1724    2750   2
1725    2751   2  ! Ensure that the requestor has OPER privilege.
1726    2752   2  !
1727    2753   2  IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
1728    2754   2  THEN
1729    2755   2      RETURN JBC$_NOOPER;
1730    2756   2
1731    2757   2
1732    2758   2  ! Read the queue header.
1733    2759   2  !
1734    2760   2  SFX_P = READ_RECORD(SFX_NP = SQH$K_RECNO);
1735    2761   2
1736    2762   2
1737    2763   2  ! Ensure that the form number is not duplicated.  If it is, and the name is the
1738    2764   2  ! same, it is a redefinition of an existing form; process it immediately.
1739    2765   2  !
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   F 15
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                                                                                                                                  SND
                                                                                                                                  V04

```
 1740    2766    2   IF FIND_FORM_NUMBER(.VALUE_FORM_NUMBER; SFM_N, SFM)
 1741    2767    2   THEN
 1742    2768    3       BEGIN
 1743    2769    3       IF CHSEQL(
 1744    2770    3           .VALUE_FORM_NAME[SDSC_W_LENGTH], .VALUE_FORM_NAME[SDSC_A_POINTER],
 1745    2771    3           CH$RCHAR(SFM[SFM$T_NAME]), SFM[SFM$T_NAME]+1;
 1746    2772    3           %C' ')
 1747    2773    3       THEN
 1748    2774    4           BEGIN
 1749    2775    4           LOCAL
 1750    2776    4               STATUS;
 1751    2777    4
 1752    2778    4           STATUS = APPLY_SFM_OPTIONS(.SFM);
 1753    2779    4           IF NOT .STATUS THEN RETURN .STATUS;
 1754    2780    4           REWRITE_RECORD(.SFM_N);
 1755    2781    4           RETURN SS$_NORMAL;
 1756    2782    4           END
 1757    2783    3       ELSE
 1758    2784    3           RETURN JBC$_DUPFORM;
 1759    2785    2       END;
 1760    2786    2
 1761    2787    2
 1762    2788    2   ! Create the form definition record.
 1763    2789    2   !
 1764    2790    2   STATUS_1 = CREATE_SFM_RECORD( ; SFM_N, SFM);
 1765    2791    2   IF NOT .STATUS_1 THEN RETURN .STATUS_1;
 1766    2792    2
 1767    2793    2
 1768    2794    2   ! Apply options to the form definition record.
 1769    2795    2   !
 1770    2796    2   STATUS_2 = APPLY_SFM_OPTIONS(.SFM);
 1771    2797    2   IF NOT .STATUS_2
 1772    2798    2   THEN
 1773    2799    3       BEGIN
 1774    2800    3       DELETE_SFM_RECORD(.SFM_N, .SFM);
 1775    2801    3       RETURN .STATUS_2;
 1776    2802    2       END;
 1777    2803    2
 1778    2804    2
 1779    2805    2   SFX_N = .SFX_P[SQH$L_FORM_INDEX_LIST];
 1780    2806    2   WHILE .SFX_N NEQ 0 DO
 1781    2807    3       BEGIN
 1782    2808    3       SFX = READ_RECORD(.SFX_N);
 1783    2809    3       SFE = SFX[SYM$T_DATA];
 1784    2810    3       INCR SFE_N FROM 0 TO SFX$K_ENTRIES-1 DO
 1785    2811    4           BEGIN
 1786    2812    4           IF CH$RCHAR(SFE[SFX$T_NAME]) EQL 0
 1787    2813    4           THEN
 1788    2814    5               BEGIN
 1789    2815    5               UPDATE_SFX_ENTRY(.SFE, .SFM_N, .SFM);
 1790    2816    5               REWRITE_RECORD(.SFM_N);
 1791    2817    5               REWRITE_RECORD(.SFX_N);
 1792    2818    5               RETURN SS$_NORMAL;
 1793    2819    5               END
 1794    2820    4           ELSE
 1795    2821    5               BEGIN
 1796    2822    5               CASE CH$COMPARE(
```

```
  1797    2823   5                    CH$RCHAR(SFM[SFM$T_NAME]), SFM[SFM$T_NAME]+1,
  1798    2824   5                    CH$RCHAR(SFE[SFX$T_NAME]), SFE[SFX$T_NAME]+1,
  1799    2825   5                    %C' ')
  1800    2826   5              FROM -1 TO 1 OF
  1801    2827   5                  SET
  1802    2828   5
  1803    2829   5
  1804    2830   5                  [-1]:
  1805    2831   6                      BEGIN
  1806    2832   6                      LOCAL
  1807    2833   6                          SFX_S:              REF BBLOCK,
  1808    2834   6                          SFX_NS,
  1809    2835   6                          SFX_NT,
  1810    2836   6                          SFX_T:              REF BBLOCK,
  1811    2837   6                          T1:                 BBLOCK[SFX$S_SFX],
  1812    2838   6                          T2:                 BBLOCK[SFX$S_SFX],
  1813    2839   6                          STATUS;
  1814    2840   6
  1815    2841   6
  1816    2842   6                      STATUS = ALLOCATE_RECORD( ; SFX_NT, SFX_T);
  1817    2843   6                      IF NOT .STATUS
  1818    2844   6                      THEN
  1819    2845   7                          BEGIN
  1820    2846   7                          DELETE_SFM_RECORD(.SFM_N, .SFM);
  1821    2847   7                          RETURN .STATUS;
  1822    2848   6                          END;
  1823    2849   6
  1824    2850   6
  1825    2851   6                      UPDATE_SFX_ENTRY(T1, .SFM_N, .SFM);
  1826    2852   6
  1827    2853   6
  1828    2854   6                      WHILE TRUE DO
  1829    2855   7                          BEGIN
  1830    2856   7                          CH$MOVE(
  1831    2857   7                              SFX$S_SFX,
  1832    2858   7                              SFX[SYM$T_DATA] +
  1833    2859   7                                  (SFX$R_ENTRIES - 1) * SFX$S_SFX,
  1834    2860   7                              T2);
  1835    2861   7                          CH$MOVE(
  1836    2862   7                              .SFX + SYM$S_SYM - .SFE - SFX$S_SFX,
  1837    2863   7                              .SFE,
  1838    2864   7                              .SFE + SFX$S_SFX);
  1839    2865   7                          CH$MOVE(
  1840    2866   7                              SFX$S_SFX,
  1841    2867   7                              T1,
  1842    2868   7                              .SFE);
  1843    2869   7                          CH$MOVE(
  1844    2870   7                              SFX$S_SFX,
  1845    2871   7                              T2,
  1846    2872   7                              T1);
  1847    2873   7                          IF CH$RCHAR(T1[SFX$T_NAME]) EQL 0
  1848    2874   7                          THEN
  1849    2875   8                              BEGIN
  1850    2876   8                              REWRITE_RECORD(.SFX_N);
  1851    2877   8                              DEALLOCATE_RECORD(.SFX_NT);
  1852    2878   8                              EXITLOOP;
  1853    2879   7                              END;
```

```
 1854    2880    7                          IF .SFX[SYM$L_LINK] EQL 0
 1855    2881    7                          THEN
 1856    2882    8                              BEGIN
 1857    2883    8                              SFX[SYM$L_LINK] = .SFX_NT;
 1858    2884    8                              SFX_T[SYM$B_TYPE] = SYM$K_SFX;
 1859    2885    8                              CH$MOVE(
 1860    2886    8                                  SFX$S_SFX,
 1861    2887    8                                  T1,
 1862    2888    8                                  SFX_T[SYM$T_DATA]);
 1863    2889    8                              REWRITE_RECORD(.SFX_NT);
 1864    2890    8                              REWRITE_RECORD(.SFX_N);
 1865    2891    8                              EXITLOOP;
 1866    2892    7                              END;
 1867    2893    7                          SFX_S = READ_RECORD(SFX_NS = .SFX[SYM$L_LINK]);
 1868    2894    7                          REWRITE_RECORD(.SFX_N);
 1869    2895    7                          SFX_N = .SFX_NS;
 1870    2896    7                          SFX = .SFX_S;
 1871    2897    7                          SFE = SFX[SYM$T_DATA];
 1872    2898    6                          END;
 1873    2899    6
 1874    2900    6
 1875    2901    6                      REWRITE_RECORD(.SFM_N);
 1876    2902    6                      RETURN SS$_NORMAL;
 1877    2903    5                      END;
 1878    2904    5
 1879    2905    5
 1880    2906    5              [0]:
 1881    2907    6                  BEGIN
 1882    2908    6                  LOCAL
 1883    2909    6                      STATUS;
 1884    2910    6
 1885    2911    6
 1886    2912    6                  DELETE_SFM_RECORD(.SFM_N, .SFM);
 1887    2913    6                  SFM = READ_RECORD(SFM_N = .SFE[SFX$L_FORM_LINK]);
 1888    2914    6                  STATUS = APPLY_SFM_OPTIONS(.SFM);
 1889    2915    6                  IF NOT .STATUS THEN RETURN .STATUS;
 1890    2916    6                  UPDATE_SFX_ENTRY(.SFE, .SFM_N, .SFM);
 1891    2917    6                  REWRITE_RECORD(.SFX_N);
 1892    2918    6                  REWRITE_RECORD(.SFM_N);
 1893    2919    6                  RETURN SS$_NORMAL;
 1894    2920    5                  END;
 1895    2921    5
 1896    2922    5
 1897    2923    5              [1]:
 1898    2924    5                  SFE = .SFE + SFX$S_SFX;
 1899    2925    5
 1900    2926    5
 1901    2927    5              TES;
 1902    2928    4              END;
 1903    2929    3          END;
 1904    2930    3
 1905    2931    3
 1906    2932    3      RELEASE_RECORD(.SFX_NP);
 1907    2933    3      SFX_NP = .SFX_N;
 1908    2934    3      SFX_P = .SFX;
 1909    2935    3      SFX_N = .SFX[SYM$L_LINK];
 1910    2936    2      END;
```

```
; 1911          2937 2
; 1912          2938 2
; 1913          2939 2     STATUS_4 = ALLOCATE_RECORD( ; SFX_N, SFX);
; 1914          2940 2     IF NOT .STATUS_4
; 1915          2941 2     THEN
; 1916          2942 3         BEGIN
; 1917          2943 3         DELETE_SFM_RECORD(.SFM_N, .SFM);
; 1918          2944 3         RETURN .STATUS_4;
; 1919          2945 3         END;
; 1920          2946 2
; 1921          2947 2
; 1922          2948 2     SFX[SYM$B_TYPE] = SYM$K_SFX;
; 1923          2949 2     UPDATE_SFX_ENTRY(SFX[SYM$T_DATA], .SFM_N, .SFM);
; 1924          2950 2     IF .SFX_NP EQL SQH$K_RECNO
; 1925          2951 2         THEN SFX_P[SQH$L_FORM_INDEX_LIST] = .SFX_N
; 1926          2952 2         ELSE SFX_P[SYM$L_LINK] = .SFX_N;
; 1927          2953 2
; 1928          2954 2
; 1929          2955 2     REWRITE_RECORD(.SFM_N);
; 1930          2956 2     REWRITE_RECORD(.SFX_N);
; 1931          2957 2     REWRITE_RECORD(.SFX_NP);
; 1932          2958 2     SS$_NORMAL
; 1933          2959 1     END;




                                          0FFC 00000 SJC_DEFINE_FORM:
                                                            .WORD     Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11          ; 2709
                       5E          98  AE  9E 00002          MOVAB     -104(SP), SP
                       50 00000000'    EF  D0 00006          MOVL      MBX, R0                                      ; 2753
              08       06  A0          02  E0 0000D          BBS       #2, 6(R0), 1$
                       50 00042894     8F  D0 00012          MOVL      #272532, R0                                  ; 2755
                                       04 00019             RET
                       10  AE          01  D0 0001A 1$:      MOVL      #1, SFX_NP                                    ; 2760
                                       01  DD 0001E          PUSHL     #1
              00000000G EF             01  FB 00020          CALLS     #1, READ_RECORD
                       04  AE          50  D0 00027          MOVL      R0, SFX_P
                       00000000'       EF  DD 0002B          PUSHL     VALUE_FORM_NUMBER                            ; 2766
              00000000G EF             01  FB 00031          CALLS     #1, FIND_FORM_NUMBER
                       59             5A  D0 00038          MOVL      R10, R9
                       56             5B  D0 0003B          MOVL      R11, R6
                       2F             50  E9 0003E          BLBC      R0, 4$
                       50       0110  C6  9A 00041          MOVZBL    272(SFM), R0                                  ; 2771
        50             20 00000000'    FF 00000000' EF 2D 00046   CMPC5  VALUE_FORM_NAME, @VALUE_FORM_NAME+2, #32, -
                          0111         C6 00053                             R0, 273(SFM)
                       10             12 00056             BNEQ      3$
                       56             DD 00058             PUSHL     SFM                                            ; 2778
              00000000G EF             01  FB 0005A          CALLS     #1, APPLY_SFM_OPTIONS
                       19             50  E9 00061          BLBC      STATUS, 5$                                    ; 2779
                       59             DD 00064 2$:          PUSHL     SFM_N                                          ; 2780
                       64             11 00066             BRB       10$
                       50 00048160     8F  D0 00068 3$:      MOVL      #295264, R0                                  ; 2784
                                       04 0006F             RET
              00000000G EF             00  FB 00070 4$:      CALLS     #0, CREATE_SFM_RECORD                         ; 2790
                       59             5A  D0 00077          MOVL      R10, R9
```

J 15

```
                            56          5B  D0  0007A          MOVL     R11, R6
                            01          50  E8  0007D  5$:     BLBS     STATUS_1, 6$            2791
                                        04      00080          RET
                                        56  DD  00081  6$:     PUSHL    SFM                    2796
                    00000000G   EF      01  FB  00083          CALLS    #1, APPLY_SFM_OPTIONS
                            52          50  D0  0008A          MOVL     R0, STATUS_2
                            64          52  E9  0008D          BLBC     STATUS_2, T4$          2797
            50          04  AE          34  C1  00090          ADDL3    #52, SFX_P, R0         2805
                            6E          60  D0  00095          MOVL     (R0), SFX_N
                                        03  12  00098  7$:     BNEQ     8$                     2806
                                      014D  31  0009A          BRW      23$
                            6E          6E  DD  0009D  8$:     PUSHL    SFX_N                  2808
                    00000000G   EF      01  FB  0009F          CALLS    #1, READ_RECORD
                            58          50  D0  000A6          MOVL     R0, SFX
                            57      0C  A8  9E  000A9          MOVAB    12(R8), SFE            2809
                                    0C  AE  D4  000AD          CLRL     SFE_N                  2810
                                        67  95  000B0  9$:     TSTB     (SFE)                  2812
                                        1B  12  000B2          BNEQ     11$
                                        56  DD  000B4          PUSHL    SFM                    2815
                                0280   8F  BB  000B6          PUSHR    #^M<R7,R9>
                    00000000G   EF      03  FB  000BA          CALLS    #3, UPDATE_SFX_ENTRY
                            59          59  DD  000C1          PUSHL    SFM_N                  2816
                    00000000G   EF      01  FB  000C3          CALLS    #1, REWRITE_RECORD
                            6E          6E  DD  000CA          PUSHL    SFX_N                  2817
                                0178   31  000CC  10$:    BRW      28$
                            51     0110  C6  9A  000CF  11$:    MOVZBL   272(SFM), R1           2823
                            50          67  9A  000D4          MOVZBL   (SFE), R0              2824
            50          20  0111  C6          51  2D  000D7          CMPC5    R1, 273(SFM), #32, R0, 1(SFE)
                            01          A7      000DE
                                        03  1B  000E0          BLEQU    12$
                                      00E3  31  000E2          BRW      22$
                                        03  1F  000E5  12$:    BLSSU    13$
                                      009D  31  000E7          BRW      19$
                    00000000G   EF      00  FB  000EA  13$:    CALLS    #0, ALLOCATE_RECORD    2842
                            52          50  D0  000F1          MOVL     R0, STATUS
                            03          52  E8  000F4  14$:    BLBS     STATUS, 15$            2843
                                      0103  31  000F7          BRW      24$
                            56          56  DD  000FA  15$:    PUSHL    SFM                    2851
                            59          59  DD  000FC          PUSHL    SFM_N
                                    48  AE  9F  000FE          PUSHAB   T1
                    00000000G   EF      03  FB  00101          CALLS    #3, UPDATE_SFX_ENTRY
                18  AE      01C4  C8     28  28  00108  16$:    MOVC3    #40, 452(SFX), T2      2856
                            50          57  C3  0010F          SUBL3    SFE, SFX, R0           2862
                            50     01D8  C0  9E  00113          MOVAB    472(R0), R0
                28  A7          67      50  28  00118          MOVC3    R0, (SFE), 40(SFE)     2864
                            67          40  AE  28  28  0011D  MOVC3    #40, T1, (SFE)         2868
                40  AE          18  AE   28  28  00122          MOVC3    #40, T2, T1           2869
                                    40  AE  95  00128          TSTB     T1                     2873
                                        15  12  0012B          BNEQ     17$
                                        6E  DD  0012D          PUSHL    SFX_N                  2876
                    00000000G   EF      01  FB  0012F          CALLS    #1, REWRITE_RECORD
                                        5A  DD  00136          PUSHL    SFX_NT                 2877
                    00000000G   EF      01  FB  00138          CALLS    #1, DEALLOCATE_RECORD
                                      FF22  31  0013F          BRW      2$                     2875
                                        68  D5  00142  17$:    TSTL     (SFX)                  2880
                                        18  12  00144          BNEQ     18$
                            68          5A  D0  00146          MOVL     SFX_NT, (SFX)          2883
```

```
                            04   AB          03  90  00149            MOVB     #3, 4(SFX_T)                       2884
                 OC   AB     40   AE          28  28  0014D            MOVC3    #40, T1, T2(SFX_T)                2888
                       00000000G  EF          5A  DD  00153            PUSHL    SFX_NT                            2889
                                               01  FB  00155            CALLS    #1, REWRITE_RECORD
                                               5E  11  0015C            BRB      21$                              2890
                            08   AE          68  DO  0015E  18$:        MOVL     (SFX), SFX_NS                    2893
                                       08    AE  DD  00162            PUSHL    SFX_NS
                       00000000G  EF          01  FB  00165            CALLS    #1, READ_RECORD
                            14   AE          50  DO  0016C            MOVL     RO, SFX_S
                                               6E  DD  00170            PUSHL    SFX_N                            2894
                       00000000G  EF          01  FB  00172            CALLS    #1, REWRITE_RECORD
                            6E   08    AE  DO  00179            MOVL     SFX_NS, SFX_N                    2895
                            58   14    AE  DO  0017D            MOVL     SFX_S, SFX                       2896
                            57   OC    A8  9E  00181            MOVAB    12(R8), SFE                      2897
                                               81  11  00185            BRB      16$                              2854
                                               56  DD  00187  19$:      PUSHL    SFM                              2912
                                               59  DD  00189            PUSHL    SFM_N
                       00000000G  EF          02  FB  0018B            CALLS    #2, DELETE_SFM_RECORD
                            59   24    A7  DO  00192            MOVL     36(SFE), SFM_N                   2913
                                               59  DD  00196            PUSHL    SFM_N
                       00000000G  EF          01  FB  00198            CALLS    #1, READ_RECORD
                            56          50  DO  0019F            MOVL     RO, SFM
                                               56  DD  001A2            PUSHL    SFM                              2914
                       00000000G  EF          01  FB  001A4            CALLS    #1, APPLY_SFM_OPTIONS
                            01          50  E8  001AB            BLBS     STATUS, 20$                      2915
                                               04  001AE            RET
                                               56  DD  001AF  20$:      PUSHL    SFM                              2916
                                       0280  8F  BB  001B1            PUSHR    #^M<R7,R9>
                       00000000G  EF          03  FB  001B5            CALLS    #3, UPDATE_SFX_ENTRY
                                               6E  DD  001BC  21$:      PUSHL    SFX_N                            2917
                       00000000G  EF          01  FB  001BE            CALLS    #1, REWRITE_RECORD
                                       FE9C  31  001C5            BRW      2$                               2918
                                               57          28  CO  001C8  22$:    ADDL2    #40, SFE                         2924
     FEDE       OC   AE          01          0B  F1  001CB            ACBL     #11, #1, SFE_N, 9$               2810
                                       10    AE  DD  001D2            PUSHL    SFX_NP                           2932
                       00000000G  EF          01  FB  001D5            CALLS    #1, RELEASE_RECORD
                            10   AE          6E  DO  001DC            MOVL     SFX_N, SFX_NP                    2933
                            04   AE          58  DO  001E0            MOVL     SFX, SFX_P                       2934
                            6E          68  DO  001E4            MOVL     (SFX), SFX_N                     2935
                                       FEAE  31  001E7            BRW      7$                               2806
                       00000000G  EF          00  FB  001EA  23$:      CALLS    #0, ALLOCATE_RECORD              2939
                            52          50  DO  001F1            MOVL     RO, STATUS_4
                            6E          5A  DO  001F4            MOVL     R10, (SP)
                            58          5B  DO  001F7            MOVL     R11, R8
                            OF          52  E8  001FA            BLBS     STATUS_4, 25$                   2940
                                               56  DD  001FD  24$:      PUSHL    SFM                              2943
                                               59  DD  001FF            PUSHL    SFM_N
                       00000000G  EF          02  FB  00201            CALLS    #2, DELETE_SFM_RECORD
                            50          52  DO  00208            MOVL     STATUS_4, RO                     2944
                                               04  0020B            RET
                            04   A8          03  90  0020C  25$:      MOVB     #3, 4(SFX)                       2948
                                               56  DD  00210            PUSHL    SFM                              2949
                                               59  DD  00212            PUSHL    SFM_N
                                       OC    A8  9F  00214            PUSHAB   12(SFX)
                       00000000G  EF          03  FB  00217            CALLS    #3, UPDATE_SFX_ENTRY
                            01   10    AE  D1  0021E            CMPL     SFX_NP, #1                       2950
                            0A          12  00222            BNEQ     26$
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

L 15
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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SNI
V04

```
        50    04  AE    34 C1 00224         ADDL3   #52, SFX_P, R0      ; 2951
              60        6E D0 00229         MOVL    SFX_N, (R0)
                        04 11 0022C         BRB     27$
              04  BE    6E D0 0022E 26$:    MOVL    SFX_N, @SFX_P       ; 2952
        00000000G EF    59 DD 00232 27$:    PUSHL   SFM_N               ; 2955
                        01 FB 00234         CALLS   #1, REWRITE_RECORD
                        6E DD 0023B         PUSHL   SFX_N               ; 2956
        00000000G EF    01 FB 0023D         CALLS   #1, REWRITE_RECORD
                    10  AE DD 00244         PUSHL   SFX_NP              ; 2957
        00000000G EF    01 FB 00247 28$:    CALLS   #1, REWRITE_RECORD
              50        01 D0 0024E         MOVL    #1, R0              ; 2959
                        04 00251            RET
```

; Routine Size: 594 bytes,   Routine Base: CODE + 0AD0

```
: 1935    2960  1 ROUTINE SJC_DELETE_CHARACTERISTIC=
: 1936    2961  1
: 1937    2962  1 !++
: 1938    2963  1 !
: 1939    2964  1 ! FUNCTIONAL DESCRIPTION:
: 1940    2965  1 !       This routine processes the SJC$_DELETE_CHARACTERISTIC request.
: 1941    2966  1 !
: 1942    2967  1 ! INPUT PARAMETERS:
: 1943    2968  1 !       NONE
: 1944    2969  1 !
: 1945    2970  1 ! IMPLICIT INPUTS:
: 1946    2971  1 !       MBX             - Pointer to buffered mailbox message.
: 1947    2972  1 !
: 1948    2973  1 ! OUTPUT PARAMETERS:
: 1949    2974  1 !       NONE
: 1950    2975  1 !
: 1951    2976  1 ! IMPLICIT OUTPUTS:
: 1952    2977  1 !       NONE
: 1953    2978  1 !
: 1954    2979  1 ! ROUTINE VALUE:
: 1955    2980  1 !       Completion status to be returned to requestor.
: 1956    2981  1 !
: 1957    2982  1 ! SIDE EFFECTS:
: 1958    2983  1 !       NONE
: 1959    2984  1 !
: 1960    2985  1 !--
: 1961    2986  1
: 1962    2987  2 BEGIN
: 1963    2988  2 LOCAL
: 1964    2989  2         SCX_P:          REF BBLOCK,     ! Pointer to predecessor of SCX
: 1965    2990  2         SCX_NP,                         ! Record number of predecessor of SCX
: 1966    2991  2         SCX:            REF BBLOCK,     ! Pointer to SCX
: 1967    2992  2         SCX_N,                          ! Record number of SCX
: 1968    2993  2         SCE:            REF BBLOCK;     ! Pointer to SCX entry
: 1969    2994  2
: 1970    2995  2
: 1971    2996  2 ! Ensure that the requestor has OPER privilege.
: 1972    2997  2
: 1973    2998  2 IF NOT .BBLOCK[MBX[ACMSQ_PRVMSK], PRV$V_OPER]
: 1974    2999  2 THEN
: 1975    3000  2     RETURN JBC$_NOOPER;
: 1976    3001  2
: 1977    3002  2
: 1978    3003  2 SCX_P = READ_RECORD(SCX_NP = SQH$K_RECNO);
: 1979    3004  2 SCX_N = .SCX_P[SQH$L_CHARACTERISTIC_LIST];
: 1980    3005  2 WHILE .SCX_N NEQ 0 DO
: 1981    3006  3     BEGIN
: 1982    3007  3     SCX = READ_RECORD(.SCX_N);
: 1983    3008  3     SCE = SCX[SYM$T_DATA];
: 1984    3009  3     INCR SCE_N FROM 0 TO SCX$K_ENTRIES-1 DO
: 1985    3010  4         BEGIN
: 1986    3011  4         IF CH$RCHAR(SCE[SCX$T_NAME]) EQL 0
: 1987    3012  4         THEN
: 1988    3013  4             EXITLOOP
: 1989    3014  4         ELSE
: 1990    3015  5             BEGIN
: 1991    3016  5             CASE CH$COMPARE(
```

```
 1992    3017  5                      .VALUE_CHARACTERISTIC_NAME[SDSC_W_LENGTH],
 1993    3018  5                      .VALUE_CHARACTERISTIC_NAME[SDSC_A_POINTER],
 1994    3019  5                      CH$RCHAR(SCE[SCX$T_NAME]), SCE[SCX$T_NAME]+1,
 1995    3020  5                      %C' ')
 1996    3021  5              FROM -1 TO 1 OF
 1997    3022  5                  SET
 1998    3023  5
 1999    3024  5
 2000    3025  5                  [-1]:
 2001    3026  5                      RETURN JBC$_NOSUCHCHAR;
 2002    3027  5
 2003    3028  5
 2004    3029  5                  [0]:
 2005    3030  6                      BEGIN
 2006    3031  6                      UPDATE_GETQUI_DATA(.SCX_N, .SCE);
 2007    3032  6                      WHILE TRUE DO
 2008    3033  7                          BEGIN
 2009    3034  7
 2010    3035  7                          ! Remove the entry pointed to by SCE.
 2011    3036  7                          !
 2012    3037  7                          CH$COPY(
 2013    3038  7                              .SCX + SYM$S_SYM - .SCE - SCX$S_SCX,
 2014    3039  7                              .SCE + SCX$S_SCX,
 2015    3040  7                              0,
 2016    3041  7                              .SCX + SYM$S_SYM - .SCE,
 2017    3042  7                              .SCE);
 2018    3043  7
 2019    3044  7
 2020    3045  7                          ! If the new entry pointed to by SCE is the first in
 2021    3046  7                          ! the block and is empty, then we removed the only
 2022    3047  7                          ! entry in the (last) block and it should be
 2023    3048  7                          ! deallocated.
 2024    3049  7                          !
 2025    3050  7                          IF .SCE_N EQL 0 AND CH$RCHAR(SCE[SCX$T_NAME]) EQL 0
 2026    3051  7                          THEN
 2027    3052  8                              BEGIN
 2028    3053  8                              IF .SCX_NP EQL SQH$K_RECNO
 2029    3054  8                                  THEN SCX_P[SQH$L_CHARACTERISTIC_LIST] = 0
 2030    3055  8                                  ELSE SCX_P[SYM$L_LINK] = 0;
 2031    3056  8                              REWRITE_RECORD(.SCX_NP);
 2032    3057  8                              DEALLOCATE_RECORD(.SCX_N);
 2033    3058  8                              EXITLOOP;
 2034    3059  8                              END;
 2035    3060  7
 2036    3061  7
 2037    3062  7                          ! The predecessor record is now correct -- rewrite it
 2038    3063  7                          ! and make the current record the predecessor.
 2039    3064  7                          !
 2040    3065  7                          REWRITE_RECORD(.SCX_NP);
 2041    3066  7                          SCX_NP = .SCX_N;
 2042    3067  7                          SCX_P = .SCX;
 2043    3068  7                          SCX_N = .SCX[SYM$L_LINK];
 2044    3069  7
 2045    3070  7
 2046    3071  7                          ! If there are no more blocks, then we are finished.
 2047    3072  7                          !
 2048    3073  7                          IF .SCX_N EQL 0
```

```
: 2049       3074   7                                   THEN
: 2050       3075   8                                       BEGIN
: 2051       3076   8                                       REWRITE_RECORD(.SCX_NP);
: 2052       3077   8                                       EXITLOOP;
: 2053       3078   7                                       END;
: 2054       3079   7
: 2055       3080   7
: 2056       3081   7                                   ! Otherwise, we must continue shuffling.  Read the next
: 2057       3082   7                                   ! record.
: 2058       3083   7                                   !
: 2059       3084   7                                   SCX = READ_RECORD(.SCX_N);
: 2060       3085   7                                   SCE = SCX[SYM$T_DATA];
: 2061       3086   7                                   SCE_N = 0;
: 2062       3087   7                                   CHSMOVE(
: 2063       3088   7                                       SCX$S_SCX,
: 2064       3089   7                                       .SCE,
: 2065       3090   7                                       SCX_P[SYM$T_DATA] +
: 2066       3091   7                                           (SCX$K_ENTRIES - 1) * SCX$S_SCX);
: 2067       3092   6                                   END;
: 2068       3093   6
: 2069       3094   6
: 2070       3095   6                               RETURN SS$_NORMAL;
: 2071       3096   5                               END;
: 2072       3097   5
: 2073       3098   5
: 2074       3099   5                           [1]:
: 2075       3100   5                               SCE = .SCE + SCX$S_SCX;
: 2076       3101   5
: 2077       3102   5
: 2078       3103   5                           TES;
: 2079       3104   4                       END;
: 2080       3105   3               END;
: 2081       3106   3
: 2082       3107   3
: 2083       3108   3           RELEASE_RECORD(.SCX_NP);
: 2084       3109   3           SCX_NP = .SCX_N;
: 2085       3110   3           SCX_P = .SCX;
: 2086       3111   3           SCX_N = .SCX[SYM$L_LINK];
: 2087       3112   2           END;
: 2088       3113   2
: 2089       3114   2
: 2090       3115   2   JBC$_NOSUCHCHAR
: 2091       3116   1   END;
```

```
                              OFFC 00000 SJC_DELETE_CHARACTERISTIC:
                                                        .WORD     Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        : 2960
                         50 00000000'  EF  D0 00002     MOVL      MBX, R0                                     : 2998
             08      06  A0             02  E0 00009     BBS       #2, 6(R0), 1$
                         50 00042894    8F  D0 0000E     MOVL      #272532, R0                                 : 3000
                                        04  00015        RET
                         59             01  D0 00016 1$: MOVL      #1, SCX_NP                                  : 3003
                                        01  DD 00019     PUSHL     #1
             00000000G   EF             01  FB 0001B     CALLS     #1, READ_RECORD
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 69
V04-000   14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (16)

C 16

```
                              57           50 D0 00022            MOVL     R0, SCX_P
                              58        10 A7 D0 00025            MOVL     16(SCX_P), SCX_N              : 3004
                                           03 12 00029 2$:        BNEQ     4$                           : 3005
                                         00D5 31 0002B 3$:        BRW      16$
                                           58 DD 0002E 4$:        PUSHL    SCX_N                        : 3007
              00000000G  EF                01 FB 00030            CALLS    #1, READ_RECORD
                              5A           50 D0 00037            MOVL     R0, SCX
                              56        0C AA 9E 0003A            MOVAB    12(R10), SCE                 : 3008
                                           5B D4 0003E            CLRL     SCE_N                        : 3009
                                           66 95 00040 5$:        TSTB     (SCE)                        : 3011
                                           03 12 00042            BNEQ     6$
                                         00A7 31 00044            BRW      15$
                         50                66 9A 00047 6$:        MOVZBL   (SCE), R0                    : 3019
   50            20 00000000' FF 00000000' EF 2D 0004A            CMPC5    VALUE_CHARACTERISTIC_NAME, -
                              01 A6           00057                        @VALUE_CHARACTERISTIC_NAME+2, #32, R0, -
                                                                          1(SCE)
                                           03 1B 00059            BLEQU    7$
                                         0087 31 0005B            BRW      14$
                                           CB 1F 0005E 7$:        BLSSU    3$
                                           56 DD 00060            PUSHL    SCE                          : 3031
                                           58 DD 00062            PUSHL    SCX_N
              00000000G  EF                02 FB 00064            CALLS    #2, UPDATE_GETQUI_DATA
                         50    5A           56 C3 0006B 8$:       SUBL3    SCE, SCX, R0                 : 3038
                         51  01DF           C0 9E 0006F            MOVAB    479(R0), R1
                         50  0200           C0 9E 00074            MOVAB    512(R0), R0                 : 3041
   50            00        21 A6           51 2C 00079            MOVC5    R1, 33(SCE), #0, R0, (SCE)   : 3042
                                           66     0007F
                                           5B D5 00080            TSTL     SCE_N                        : 3050
                                           24 12 00082            BNEQ     11$
                                           66 95 00084            TSTB     (SCE)
                                           20 12 00086            BNEQ     11$
                              01           59 D1 00088            CMPL     SCX_NP, #1                   : 3053
                                           05 12 0008B            BNEQ     9$
                                        10 A7 D4 0008D            CLRL     16(SCX_P)                    : 3054
                                           02 11 00090            BRB      10$
                                           67 D4 00092 9$:        CLRL     (SCX_P)                      : 3055
                                           59 DD 00094 10$:       PUSHL    SCX_NP                       : 3056
              00000000G  EF                01 FB 00096            CALLS    #1, REWRITE_RECORD
                                           58 DD 0009D            PUSHL    SCX_N                        : 3057
              00000000G  EF                01 FB 0009F            CALLS    #1, DEALLOCATE_RECORD
                                           39 11 000A6            BRB      13$                          : 3052
                                           59 DD 000A8 11$:       PUSHL    SCX_NP                       : 3065
              00000000G  EF                01 FB 000AA            CALLS    #1, REWRITE_RECORD
                                           59 58 D0 000B1          MOVL     SCX_N, SCX_NP               : 3066
                                           57 5A D0 000B4          MOVL     SCX, SCX_P                  : 3067
                                           58 6A D0 000B7          MOVL     (SCX), SCX_N               : 3068
                                           0B 12 000BA            BNEQ     12$                          : 3073
                                           59 DD 000BC            PUSHL    SCX_NP                       : 3076
              00000000G  EF                01 FB 000BE            CALLS    #1, REWRITE_RECORD
                                           1A 11 000C5            BRB      13$                          : 3075
                                           58 DD 000C7 12$:       PUSHL    SCX_N                        : 3084
              00000000G  EF                01 FB 000C9            CALLS    #1, READ_RECORD
                              5A           50 D0 000D0            MOVL     R0, SCX
                              56        0C AA 9E 000D3            MOVAB    12(R10), SCE                 : 3085
                                           5B D4 000D7            CLRL     SCE_N                        : 3086
      01DA     C7           66           21 28 000D9            MOVC3    #33, (SCE), 474(SCX_P)        : 3090
                                           8A 11 000DF            BRB      8$                           : 3032
```

```
                              50          01  D0 000E1 13$:   MOVL    #1, R0                          ; 3095
                                          04 000E4           RET
                              56          21  C0 000E5 14$:   ADDL2   #33, SCE                        ; 3100
          FF52          5B    01          0E  F1 000E8        ACBL    #14, #1, SCE_N, 5$              ; 3009
                              59          DD 000EE 15$:       PUSHL   SCX_NP                          ; 3108
                00000000G EF   01  FB 000F0           CALLS   #1, RELEASE_RECORD
                              59          58  D0 000F7        MOVL    SCX_N, SCX_NP                   ; 3109
                              57          5A  D0 000FA        MOVL    SCX, SCX_P                      ; 3110
                              58          6A  D0 000FD        MOVL    (SCX), SCX_N                    ; 3111
                                   FF26  31 00100           BRW     2$                               ; 3005
                          50 00048150  8F  D0 00103 16$:     MOVL    #295248, R0                     ; 3116
                                          04 0010A           RET
```

; Routine Size: 267 bytes,   Routine Base: CODE + 0D22

```
 2093    3117   1   ROUTINE SJC_DELETE_FORM=
 2094    3118   1
 2095    3119   1   !++
 2096    3120   1   !
 2097    3121   1   !   FUNCTIONAL DESCRIPTION:
 2098    3122   1   !       This routine processes the SJC$_DELETE_FORM request.
 2099    3123   1   !
 2100    3124   1   !   INPUT PARAMETERS:
 2101    3125   1   !       NONE
 2102    3126   1   !
 2103    3127   1   !   IMPLICIT INPUTS:
 2104    3128   1   !       MBX                 - Fointer to buffered mailbox message.
 2105    3129   1   !
 2106    3130   1   !   OUTPUT PARAMETERS:
 2107    3131   1   !       NONE
 2108    3132   1   !
 2109    3133   1   !   IMPLICIT OUTPUTS:
 2110    3134   1   !       NONE
 2111    3135   1   !
 2112    3136   1   !   ROUTINE VALUE:
 2113    3137   1   !       Completion status to be returned to requestor.
 2114    3138   1   !
 2115    3139   1   !   SIDE EFFECTS:
 2116    3140   1   !       NONE
 2117    3141   1   !
 2118    3142   1   !--
 2119    3143   1
 2120    3144   2   BEGIN
 2121    3145   2   LOCAL
 2122    3146   2           SFX_P:          REF BBLOCK,     ! Pointer to predecessor of SFX
 2123    3147   2           SFX_NP,                         ! Record number of predecessor of SFX
 2124    3148   2           SFX:            REF BBLOCK,     ! Pointer to SFX
 2125    3149   2           SFX_N,                          ! Record number of SFX
 2126    3150   2           SFE:            REF BBLOCK;     ! Pointer to SFX entry
 2127    3151   2
 2128    3152   2
 2129    3153   2   ! Ensure that the requestor has OPER privilege.
 2130    3154   2   !
 2131    3155   2   IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
 2132    3156   2   THEN
 2133    3157   2       RETURN JBC$_NOOPER;
 2134    3158   2
 2135    3159   2
 2136    3160   2   SFX_P = READ_RECORD(SFX_NP = SQH$K_RECNO);
 2137    3161   2   SFX_N = .SFX_P[SQH$L_FORM_INDEX_LIST];
 2138    3162   2   WHILE .SFX_N NEQ 0 DO
 2139    3163   3       BEGIN
 2140    3164   3       SFX = READ_RECORD(.SFX_N);
 2141    3165   3       SFE = SFX[SYM$T_DATA];
 2142    3166   3       INCR SFE_N FROM 0 TO SFX$K_ENTRIES-1 DO
 2143    3167   4           BEGIN
 2144    3168   4           IF CH$RCHAR(SFE[SFX$T_NAME]) EQL 0
 2145    3169   4           THEN
 2146    3170   4               EXITLOOP
 2147    3171   4           ELSE
 2148    3172   5               BEGIN
 2149    3173   5               CASE CH$COMPARE(
```

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F 16

```
2150    3174   5                        .VALUE_FORM_NAME[SDSC_W_LENGTH], .VALUE_FORM_NAME[SDSC_A_POINTER],
2151    3175   5                        CH$RCHAR(SFE[SFX$T_NAME]), SFE[SFX$T_NAME]+1,
2152    3176   5                        %C' ')
2153    3177   5                FROM -1 TO 1 OF
2154    3178   5                    SET
2155    3179   5
2156    3180   5
2157    3181   5                    [-1]:
2158    3182   5                        RETURN JBC$_NOSUCHFORM;
2159    3183   5
2160    3184   5
2161    3185   5                    [0]:
2162    3186   6                        BEGIN
2163    3187   6                        LOCAL
2164    3188   6                            SFM:              REF BBLOCK,        ! Pointer to SFM
2165    3189   6                            SFM_N,                               ! Record number of SFM
2166    3190   6                            CTX:              BBLOCK[QSM_K_CTXSIZE],
2167    3191   6                            SJH_N,                               ! Record number of SJH
2168    3192   6                            SJH:              REF BBLOCK;        ! Pointer to SJH
2169    3193   6
2170    3194   6
2171    3195   6                        ! Read the form definition.
2172    3196   6                        !
2173    3197   6                        SFM = READ_RECORD(SFM_N = .SFE[SFX$L_FORM_LINK]);
2174    3198   6
2175    3199   6
2176    3200   6                        ! Ensure that the form has no outstanding references.
2177    3201   6                        !
2178    3202   6                        IF FIND_FORM_REFERENCES(.SFM_N)
2179    3203   6                        THEN
2180    3204   6                            RETURN JBC$_REFERENCED;
2181    3205   6
2182    3206   6
2183    3207   6                        ! Delete the form definition.
2184    3208   6                        !
2185    3209   6                        DELETE_SFM_RECORD(.SFM_N, .SFM);
2186    3210   6
2187    3211   6
2188    3212   6                        ! Remove the form index entry.
2189    3213   6                        !
2190    3214   6                        UPDATE_GETQUI_DATA(.SFX_N, .SFE);
2191    3215   6                        WHILE TRUE DO
2192    3216   7                            BEGIN
2193    3217   7
2194    3218   7                            ! Remove the entry pointed to by SFE.
2195    3219   7                            !
2196    3220   7                            CH$COPY(
2197    3221   7                                .SFX + SYM$S_SYM - .SFE - SFX$S_SFX,
2198    3222   7                                .SFE + SFX$S_SFX,
2199    3223   7                                0,
2200    3224   7                                .SFX + SYM$S_SYM - .SFE,
2201    3225   7                                .SFE);
2202    3226   7
2203    3227   7                            ! If the new entry pointed to by SFE is the first in
2204    3228   7                            ! the block and is empty, then we removed the only
2205    3229   7                            ! entry in the (last) block and it should be
2206    3230   7
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services G 16   VAX-11 Bliss-32 V4.0-742   Page 73
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                       14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (17)

```
 2207   3231  7                    ! deallocated.
 2208   3232  7                    !
 2209   3233  7                    IF .SFE_N EQL 0 AND CH$RCHAR(SFE[SFX$T_NAME]) EQL 0
 2210   3234  7                    THEN
 2211   3235  8                        BEGIN
 2212   3236  8                        IF .SFX_NP EQL SQH$K_RECNO
 2213   3237  8                            THEN SFX_P[SQH$L_FORM_INDEX_LIST] = 0
 2214   3238  8                            ELSE SFX_P[SYM$L_LINK] = 0;
 2215   3239  8                        REWRITE_RECORD(.SFX_NP);
 2216   3240  8                        DEALLOCATE_RECORD(.SFX_N);
 2217   3241  8                        EXITLOOP;
 2218   3242  7                        END;
 2219   3243  7
 2220   3244  7
 2221   3245  7                    ! The predecessor record is now correct -- rewrite it
 2222   3246  7                    ! and make the current record the predecessor.
 2223   3247  7                    !
 2224   3248  7                    REWRITE_RECORD(.SFX_NP);
 2225   3249  7                    SFX_NP = .SFX_N;
 2226   3250  7                    SFX_P = .SFX;
 2227   3251  7                    SFX_N = .SFX[SYM$L_LINK];
 2228   3252  7
 2229   3253  7
 2230   3254  7                    ! If there are no more blocks, then we are finished.
 2231   3255  7                    !
 2232   3256  7                    IF .SFX_N EQL 0
 2233   3257  7                    THEN
 2234   3258  8                        BEGIN
 2235   3259  8                        REWRITE_RECORD(.SFX_NP);
 2236   3260  8                        EXITLOOP;
 2237   3261  7                        END;
 2238   3262  7
 2239   3263  7
 2240   3264  7                    ! Otherwise, we must continue shuffling.  Read the next
 2241   3265  7                    ! record.
 2242   3266  7                    !
 2243   3267  7                    SFX = READ_RECORD(.SFX_N);
 2244   3268  7                    SFE = SFX[SYM$T_DATA];
 2245   3269  7                    SFE_N = 0;
 2246   3270  7                    CH$MOVE(
 2247   3271  7                        SFX$S_SFX,
 2248   3272  7                        .SFE,
 2249   3273  7                        SFX_P[SYM$T_DATA] +
 2250   3274  7                            (SFX$K_ENTRIES - 1) * SFX$S_SFX);
 2251   3275  6                    END;
 2252   3276  6
 2253   3277  6
 2254   3278  6                RETURN SS$_NORMAL;
 2255   3279  5                END;
 2256   3280  5
 2257   3281  5
 2258   3282  5        [1]:
 2259   3283  5            SFE = .SFE + SFX$S_SFX;
 2260   3284  5
 2261   3285  5
 2262   3286  5        TES;
 2263   3287  4    END;
```

```
; 2264          3288  3          END;
; 2265          3289  3
; 2266          3290  3
; 2267          3291  3          RELEASE_RECORD(.SFX_NP);
; 2268          3292  3          SFX_NP = .SFX_N;
; 2269          3293  3          SFX_P = .SFX;
; 2270          3294  3          SFX_N = .SFX[SYM$L_LINK];
; 2271          3295  3          END;
; 2272          3296  2
; 2273          3297  2
; 2274          3298  2  JBC$_NOSUCHFORM
; 2275          3299  1  END;
```

```
                                          OFFC 00000 SJC_DELETE_FORM:
                                                             .WORD      Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        ; 3117
                            5E            24 C2 00002        SUBL2      #36, SP
                            50 00000000'  EF D0 00005        MOVL       MBX, R0                                     ; 3155
                08    06    A0            02 E0 0000C        BBS        #2, 6(R0), 1$
                            50 00042894   8F D0 00011        MOVL       #272532, R0                                 ; 3157
                                          04 00018          RET
                            5A            01 D0 00019 1$:    MOVL       #1, SFX_NP                                   ; 3160
                                          01 DD 0001C        PUSHL      #1
                00000000G   EF            01 FB 0001E        CALLS      #1, READ_RECORD
                            57            50 D0 00025        MOVL       R0, SFX_P
                            58      34    A7 D0 00028        MOVL       52(SFX_P), SFX_N                            ; 3161
                                          03 12 0002C 2$:    BNEQ       4$                                          ; 3162
                                        0102 31 0002E 3$:    BRW        17$
                            58            DD 00031 4$:       PUSHL      SFX_N                                       ; 3164
                00000000G   EF            01 FB 00033        CALLS      #1, READ_RECORD
                            5B            50 D0 0003A        MOVL       R0, SFX
                            56      0C    AB 9E 0003D        MOVAB      12(R11), SFE                                ; 3165
                            59            D4 00041          CLRL       SFE_N                                        ; 3166
                            66            95 00043 5$:       TSTB       (SFE)                                       ; 3168
                                          03 12 00045        BNEQ       6$
                                        00D4 31 00047        BRW        16$
                            50            66 9A 0004A 6$:    MOVZBL     (SFE), R0                                   ; 3175
      50            20 00000000' FF 00000000' EF 2D 0004D    CMPC5      VALUE_FORM_NAME, @VALUE_FORM_NAME+2, #32, -
                                          01 A6 0005A                   R0, 1(SFE)
                                          03 1B 0005C        BLEQU      7$
                                        00B4 31 0005E        BRW        15$
                                          CB 1F 00061 7$:    BLSSU      3$
                            52      24    A6 D0 00063        MOVL       36(SFE), SFM_N                              ; 3197
                            52            DD 00067          PUSHL      SFM_N
                00000000G   EF            01 FB 00069        CALLS      #1, READ_RECORD
                            53            50 D0 00070        MOVL       R0, SFM
                            52            DD 00073          PUSHL      SFM_N
                00000000G   EF            01 FB 00075        CALLS      #1, FIND_FORM_REFERENCES                    ; 3202
                            08            50 E9 0007C        BLBC       R0, 8$
                            50 00048050   8F D0 0007F        MOVL       #294992, R0                                 ; 3204
                                          04 00086          RET
                            0C            BB 00087 8$:       PUSHR      #^M<R2,R3>                                  ; 3209
                00000000G   EF            02 FB 00089        CALLS      #2, DELETE_SFM_RECORD
                            56            DD 00090          PUSHL      SFE                                          ; 3214
```

```
                                     58  DD 00092           PUSHL    SFX_N
                       00000000G EF   02  FB 00094           CALLS    #2, UPDATE_GETQUI_DATA
                  50                  5B  C3 0009B  9$:       SUBL3    SFE, SFX, R0                              3221
                                 51   CO  9E 0009F           MOVAB    472(R0), R1
                            01D8 50   CO  9E 000A4           MOVAB    512(R0), R0                               3224
        50          00      0200 51   2C 000A9           MOVC5    R1, 40(SFE), #0, R0, (SFE)                3225
                            28 A6 66      000AF
                                     59  D5 000B0           TSTL     SFE_N                                     3233
                                     24  12 000B2           BNEQ     12$
                                     66  95 000B4           TSTB     (SFE)
                                     20  12 000B6           BNEQ     12$
                                  01 5A  D1 000B8           CMPL     SFX_NP, #1                                3236
                                     05  12 000BB           BNEQ     10$
                               34 A7  D4 000BD           CLRL     52(SFX_P)                                 3237
                                     02  11 000C0           BRB      11$
                                     67  D4 000C2  10$:      CLRL     (SFX_P)                                   3238
                                     5A  DD 000C4  11$:      PUSHL    SFX_NP                                    3239
                       00000000G EF   01  FB 000C6           CALLS    #1, REWRITE_RECORD
                                     58  DD 000CD           PUSHL    SFX_N
                       00000000G EF   01  FB 000CF           CALLS    #1, DEALLOCATE_RECORD                      3240
                                     39  11 000D6           BRB      14$                                       3235
                                     5A  DD 000D8  12$:      PUSHL    SFX_NP                                    3248
                       00000000G EF   01  FB 000DA           CALLS    #1, REWRITE_RECORD
                                  5A  58  D0 000E1           MOVL     SFX_N, SFX_NP                             3249
                                  57  5B  D0 000E4           MOVL     SFX, SFX_P                                3250
                                  58  6B  D0 000E7           MOVL     (SFX), SFX_N                              3251
                                     0B  12 000EA           BNEQ     13$                                       3256
                                     5A  DD 000EC           PUSHL    SFX_NP                                    3259
                       00000000G EF   01  FB 000EE           CALLS    #1, REWRITE_RECORD
                                     1A  11 000F5           BRB      14$                                       3258
                                     58  DD 000F7  13$:      PUSHL    SFX_N                                     3267
                       00000000G EF   01  FB 000F9           CALLS    #1, READ_RECORD
                                  5B  50  D0 00100           MOVL     R0, SFX
                               OC AB  9E 00103           MOVAB    12(R11), SFE                             3268
                                  56  59  D4 00107           CLRL     SFE_N                                     3269
            01C4 C7        66  28  28 00109           MOVC3    #40, (SFE), 452(SFX_P)                    3273
                                     8A  11 0010F           BRB      9$                                        3215
                                  50  01  D0 00111  14$:     MOVL     #1, R0                                    3278
                                     04    00114           RET
                               56  28  CO 00115  15$:     ADDL2    #40, SFE                                  3283
        FF25         59        01  0B  F1 00118           ACBL     #11, #1, SFE_N, 5$                        3166
                                  5A  DD 0011E  16$:     PUSHL    SFX_NP                                    3291
                       00000000G EF   01  FB 00120           CALLS    #1, RELEASE_RECORD
                                  5A  58  D0 00127           MO       SFX_N, SFX_NP                            3292
                                  57  5B  D0 0012A           MOV      SFX, SFX_P                                3293
                                  58  6B  D0 0012D           MOVL     (SFX), SFX_N                              3294
                             FEF9  31 00130           BRW      2$                                        3162
            50 00048158   8F  D0 00133  17$:     MOVL     #295256, R0                               3299
                                     04    0013A           RET
```

; Routine Size: 315 bytes,   Routine Base: CODE + 0E2D

SNDJBC
V04-000
SSNDACC, SSNDSMB, and SSNDJBC services

J 16
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1

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```
2277    3300    1  ROUTINE SJC_DELETE_JOB(SQX_N,SQE,SMQ_N,SMQ)=
2278    3301    1
2279    3302    1  !++
2280    3303    1  !
2281    3304    1  ! FUNCTIONAL DESCRIPTION:
2282    3305    1  !     This routine processes the SJC$_DELETE_JOB (SMR$K_RMVJOB) request.
2283    3306    1  !
2284    3307    1  ! INPUT PARAMETERS:
2285    3308    1  !     SMQ             - Pointer to SMQ.
2286    3309    1  !
2287    3310    1  ! IMPLICIT INPUTS:
2288    3311    1  !     MBX             - Pointer to buffered mailbox message.
2289    3312    1  !
2290    3313    1  ! OUTPUT PARAMETERS:
2291    3314    1  !     NONE
2292    3315    1  !
2293    3316    1  ! IMPLICIT OUTPUTS:
2294    3317    1  !     NONE
2295    3318    1  !
2296    3319    1  ! ROUTINE VALUE:
2297    3320    1  !     Completion status to be returned to requestor.
2298    3321    1  !
2299    3322    1  ! SIDE EFFECTS:
2300    3323    1  !     NONE
2301    3324    1  !
2302    3325    1  !--
2303    3326    1
2304    3327    2  BEGIN
2305    3328    2  MAP
2306    3329    2      SQE:            REF BBLOCK,      ! Pointer to SQX entry
2307    3330    2      SMQ:            REF BBLOCK;      ! Pointer to SMQ
2308    3331    2  LOCAL
2309    3332    2      SJH_N,                           ! Record number of SJH
2310    3333    2      SJH:            REF BBLOCK,      ! Pointer to SJH
2311    3334    2      ESMQ_N,                          ! Record number of executor SMQ
2312    3335    2      ESMQ:           REF BBLOCK,      ! Pointer to executor SMQ
2313    3336    2      STATUS_1,                        ! Status return
2314    3337    2      STATUS_2;                        ! Status return
2315    3338    2
2316    3339    2
2317    3340    2  ! Find the specified job.
2318    3341    2  !
2319    3342    2  STATUS_1 = SEARCH_QUEUES(
2320    3343    2      QSM_M_OPEN OR QSM_M_TIMER OR QSM_M_PENDING OR QSM_M_HOLD OR QSM_M_CURRENT,
2321    3344    2      .SMQ_N, .SMQ,
2322    3345    2      VALUE_ENTRY_NUMBER, 0,
2323    3346    2      CHECK_D_ACCESS,
2324    3347    2      QSM_K_REMOVE_INACTIVE;
2325    3348    2      SJH_N, SJH, ESMQ_N, ESMQ);
2326    3349    2  IF NOT .STATUS_1 THEN RETURN .STATUS_1;
2327    3350    2
2328    3351    2
2329    3352    2  ! If the job is executing, request the executor to abort it.
2330    3353    2  !
2331    3354    2  IF .SJH[SJH$V_EXECUTING]
2332    3355    2  THEN
2333    3356    3      BEGIN
```

```
2334    3357   3          ! If a previous abort is in progress, refuse this request.
2335    3358   3          !
2336    3359   3
2337    3360   3          IF .SJH[SJH$V_ABORTING]
2338    3361   3          OR .SJH[SJH$V_ABORTED]
2339    3362   3          THEN
2340    3363   3              RETURN JBC$_INCOMPLETE;
2341    3364   3
2342    3365   3
2343    3366   3          ! Execute the actual abort.
2344    3367   3          !
2345    3368   3          STATUS_2 = ABORT_EXECUTOR_JOB(.ESMQ_N, .ESMQ, .SJH_N, .SJH);
2346    3369   3          REWRITE_RECORD(.SJH_N);
2347    3370   3          RETURN .STATUS_2;
2348    3371   2          END;
2349    3372   2
2350    3373   2
2351    3374   2      ! If the job is not executing, process the request in place.
2352    3375   2      !
2353    3376   2      IF .SJH[SJH$V_STARTING]
2354    3377   2      THEN
2355    3378   3          BEGIN
2356    3379   3          ESMQ[SMQ$B_CURRENT_JOB_COUNT] = .ESMQ[SMQ$B_CURRENT_JOB_COUNT] - 1;
2357    3380   3          FIND_PENDING_JOBS(.ESMQ_N, .ESMQ);
2358    3381   3          REWRITE_RECORD(.ESMQ_N);
2359    3382   2          END;
2360    3383   2
2361    3384   2
2362    3385   2      SJH[SJH$V_DELETED] = TRUE;
2363    3386   2      COMPLETE_JOB(.SJH_N, .SJH, .SMQ, 0);
2364    3387   2
2365    3388   2
2366    3389   2      SS$_NORMAL
2367    3390   1      END;
```

```
                OF1C 00000 SJC_DELETE_JOB:
                                                       .WORD     Save R2,R3,R4,R8,R9,R10,R11          ; 3300
            54 00000000G  EF  9E 00002                 MOVAB     REWRITE_RECORD, R4
                      02  DD 00009                      PUSHL     #2                                   ; 3342
               00000000G  EF  9F 0000B                 PUSHAB    CHECK_D_ACCESS
                      7E  D4 00011                      CLRL      -(SP)
               00000000'  EF  9F 00013                 PUSHAB    VALUE_ENTRY_NUMBER                    ; 3344
            7E        0C  AC  7D 00019                 MOVQ      SMQ_N, -(SP)
                      1F  DD 0001D                      PUSHL     #31                                  ; 3343
      00000000G  EF       07  FB 0001F                 CALLS     #7, SEARCH_QUEUES
                  5C       50  E9 00026                 BLBC      STATUS_1, 5$                          ; 3349
                  52  10   A9  9E 00029                 MOVAB     16(SJH), R2                           ; 3354
         28       62       03  E1 0002D                 BBC       #3, (R2), 3$
         03       62       01  E0 00031                 BBS       #1, (R2), 1$                          ; 3360
                  08       62  E9 00035                 BLBC      (R2), 2$                              ; 3361
            50 00048138   8F  D0 00038 1$:              MOVL      #295224, R0                           ; 3363
                      04 0003F                           RET
            7E        58  7D 00040 2$:                  MOVQ      SJH_N, -(SP)                          ; 3368
```

```
                        7E              5A  7D 00043          MOVQ     ESMQ_N, -(SP)
          00000000G     EF              04  FB 00046          CALLS    #4, ABORT_EXECUTOR_JOB
                        53              50  DO 0004D          MOVL     RO, STATUS_2
                                        58  DD 00050          PUSHL    SJH_N                        ; 3369
                        64              01  FB 00052          CALLS    #1, REWRITE_RECORD
                        50              53  DO 00055          MOVL     STATUS_2, RO                 ; 3370
                                        04 00058             RET
          13            62              OC  E1 00059 3$:      BBC      #12, (R2), 4$                ; 3376
                                 0115   CB  97 0005D          DECB     277(ESMQ)                    ; 3379
                        7E              5A  7D 00061          MOVQ     ESMQ_N, -(SP)                ; 3380
          00000000G     EF              02  FB 00064          CALLS    #2, FIND_PENDING_JOBS
                        5A              DD 0006B             PUSHL    ESMQ_N                        ; 3381
                        64              01  FB 0006D          CALLS    #1, REWRITE_RECORD
                        62              04  88 00070 4$:      BISB2    #4, (R2)                     ; 3385
                        7E              D4 00073             CLRL     -(SP)                          ; 3386
                        10             AC  DD 00075          PUSHL    SMQ
                        7E             58  7D 00078          MOVQ     SJH_N, -(SP)
          00000000G     EF              04  FB 0007B          CALLS    #4, COMPLETE_JOB
                        50              01  DO 00082          MOVL     #1, RO                        ; 3390
                                        04 00085 5$:         RET
```

; Routine Size: 134 bytes,   Routine Base: CODE + 0F68

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

M 16
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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```
2369   3391   1  ROUTINE SJC_DELETE_QUEUE=
2370   3392   1
2371   3393   1  !++
2372   3394   1  !
2373   3395   1  ! FUNCTIONAL DESCRIPTION:
2374   3396   1  !     This routine processes the SJC$_DELETE_QUEUE (SMR$K_DELETE) request.
2375   3397   1  !
2376   3398   1  ! INPUT PARAMETERS:
2377   3399   1  !     NONE
2378   3400   1  !
2379   3401   1  ! IMPLICIT INPUTS:
2380   3402   1  !     MBX               - Pointer to buffered mailbox message.
2381   3403   1  !
2382   3404   1  ! OUTPUT PARAMETERS:
2383   3405   1  !     NONE
2384   3406   1  !
2385   3407   1  ! IMPLICIT OUTPUTS:
2386   3408   1  !     NONE
2387   3409   1  !
2388   3410   1  ! ROUTINE VALUE:
2389   3411   1  !     Completion status to be returned to requestor.
2390   3412   1  !
2391   3413   1  ! SIDE EFFECTS:
2392   3414   1  !     NONE
2393   3415   1  !
2394   3416   1  !--
2395   3417   1
2396   3418   2  BEGIN
2397   3419   2  LOCAL
2398   3420   2          SQX_P:            REF BBLOCK,      ! Pointer to predecessor of SQX
2399   3421   2          SQX_NP,                            ! Record number of predecessor of SQX
2400   3422   2          SQX:              REF BBLOCK,      ! Pointer to SQX
2401   3423   2          SQX_N,                            ! Record number of SQX
2402   3424   2          SQE:              REF BBLOCK;      ! Pointer to SQX entry
2403   3425   2
2404   3426   2
2405   3427   2  ! Ensure that the requestor has OPER privilege.
2406   3428   2  !
2407   3429   2  IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
2408   3430   2  THEN
2409   3431   2      RETURN JBC$_NOOPER;
2410   3432   2
2411   3433   2
2412   3434   2  SQX_P = READ_RECORD(SQX_NP = SQH$K_RECNO);
2413   3435   2  SQX_N = .SQX_P[SQH$L_QUEUE_INDEX_LIST];
2414   3436   2  WHILE .SQX_N NEQ 0 DO
2415   3437   3      BEGIN
2416   3438   3      SQX = READ_RECORD(.SQX_N);
2417   3439   3      SQE = SQX[SYM$T_DATA];
2418   3440   3      INCR SQE_N FROM 0 TO SQX$K_ENTRIES-1 DO
2419   3441   4          BEGIN
2420   3442   4          IF CH$RCHAR(SQE[SQX$T_NAME]) EQL 0
2421   3443   4          THEN
2422   3444   4              EXITLOOP
2423   3445   4          ELSE
2424   3446   5              BEGIN
2425   3447   5              CASE CH$COMPARE(
```

```
: 2426    3448   5              .VALUE QUEUE[SDSC_W_LENGTH], .VALUE QUEUE[SDSC_A_POINTER],
: 2427    3449   5              CH$RCHAR(SQE[SQX$T_NAME]), SQE[SQX$T_NAME]+1,
: 2428    3450   5              %C' ')
: 2429    3451   5          FROM -1 TO 1 OF
: 2430    3452   5          SET
: 2431    3453   5
: 2432    3454   5
: 2433    3455   5          [-1]:
: 2434    3456   5              RETURN JBC$_NOSUCHQUE;
: 2435    3457   5
: 2436    3458   5
: 2437    3459   5          [0]:
: 2438    3460   6              BEGIN
: 2439    346^   6              LOCAL
: 2440    3462   6                  SMQ:              REF BBLOCK,         ! Pointer to SMQ
: 2441    3463   6                  SMQ_N,                                ! Record number of SMQ
: 2442    3464   6                  CTX:              BBLOCK[QSM_K_CTXSIZE],
: 2443    3465   6                  SJH_N,                                ! Record number of SJH
: 2444    3466   6                  SJH:              REF BBLOCK;         ! Pointer to SJH
: 2445    3467   6
: 2446    3468   6
: 2447    3469   6              ! Read the queue header.
: 2448    3470   6              !
: 2449    3471   6              SMQ = READ_RECORD(SMQ_N = .SQE[SQX$L_QUEUE_LINK]);
: 2450    3472   6
: 2451    3473   6
: 2452    3474   6              ! Ensure the queue is stopped and there is no current job.
: 2453    3475   6              !
: 2454    3476   6              IF .SMQ[SMQ$B_CURRENT_JOB_COUNT] NEQ 0
: 2455    3477   6              OR NOT .SMQ[SMQ$V_STOPPED]
: 2456    3478   6              OR .SMQ[SMQ$L_STREAM_SCT] NEQ 0
: 2457    3479   6              THEN
: 2458    3480   6                  RETURN JBC$_REFERENCED;
: 2459    3481   6
: 2460    3482   6
: 2461    3483   6              ! Delete all jobs in queue.
: 2462    3484   6              !
: 2463    3485   6              CH$FILL(0, QSM_K_CTXSIZE, CTX);
: 2464    3486   6              WHILE SEARCH_QUEUES(
: 2465    3487   6                  QSM_M_OPEN OR QSM_M_TIMER OR QSM_M_PENDING OR QSM_M_HOLD,
: 2466    3488   6                  .SMQ_N, .SMQ,
: 2467    3489   6                  0, 0,
: 2468    3490   6                  0,
: 2469    3491   6                  QSM_K_REMOVE_INACTIVE,
: 2470    3492   6                  CTX;
: 2471    3493   6                  SJH_N, SJH)
: 2472    3494   6              DO
: 2473    3495   7                  BEGIN
: 2474    3496   7                  IF .SJH[SJH$V_EXECUTING] THEN RETURN JBC$_EXECUTING;
: 2475    3497   7                  SJH[SJH$V_DELETED] = TRUE;
: 2476    3498   7                  COMPLETE_JOB(.SJH_N, .SJH, .SMQ, 0);
: 2477    3499   6                  END;
: 2478    3500   6
: 2479    3501   6
: 2480    3502   6              ! Ensure that there are no outstanding references to the
: 2481    3503   6              ! queue.
: 2482    3504   6              !
```

```
 2483   3505  6                          IF FIND_QUEUE_REFERENCES(.SMQ_N)
 2484   3506  6                          THEN
 2485   3507  6                              RETURN JBC$_REFERENCED;
 2486   3508  6
 2487   3509  6
 2488   3510  6                          ! Delete the queue header.
 2489   3511  6                          !
 2490   3512  6                          DELETE_SMQ_RECORD(.SMQ_N, .SMQ);
 2491   3513  6
 2492   3514  6
 2493   3515  6                          ! Remove the queue index entry.
 2494   3516  6                          !
 2495   3517  6                          UPDATE_GETQUI_DATA(.SQX_N, .SQE);
 2496   3518  6                          WHILE TRUE DO
 2497   3519  7                              BEGIN
 2498   3520  7
 2499   3521  7                              ! Remove the entry pointed to by SQE.
 2500   3522  7                              !
 2501   3523  7                              CH$COPY(
 2502   3524  7                                  .SQX + SYM$S_SYM - .SQE - SQX$S_SQX,
 2503   3525  7                                  .SQE + SQX$S_SQX,
 2504   3526  7                                  0,
 2505   3527  7                                  .SQX + SYM$S_SYM - .SQE,
 2506   3528  7                                  .SQE);
 2507   3529  7
 2508   3530  7
 2509   3531  7                              ! If the new entry pointed to by SQE is the first in
 2510   3532  7                              ! the block and is empty, then we removed the only
 2511   3533  7                              ! entry in the (last) block and it should be
 2512   3534  7                              ! deallocated.
 2513   3535  7                              !
 2514   3536  7                              IF .SQE_N EQL 0 AND CH$RCHAR(SQE[SQX$T_NAME]) EQL 0
 2515   3537  7                              THEN
 2516   3538  8                                  BEGIN
 2517   3539  8                                  IF .SQX_NP EQL SQH$K_RECNO
 2518   3540  8                                      THEN SQX_P[SQH$L_QUEUE_INDEX_LIST] = 0
 2519   3541  8                                      ELSE SQX_P[SYM$L_LINK] = 0;
 2520   3542  8                                  REWRITE_RECORD(.SQX_NP);
 2521   3543  8                                  DEALLOCATE_RECORD(.SQX_N);
 2522   3544  8                                  EXITLOOP;
 2523   3545  7                                  END;
 2524   3546  7
 2525   3547  7
 2526   3548  7                              ! The predecessor record is now correct -- rewrite it
 2527   3549  7                              ! and make the current record the predecessor.
 2528   3550  7                              !
 2529   3551  7                              REWRITE_RECORD(.SQX_
 2530   3552  7                              SQX_NP = .SQX_N;
 2531   3553  7                              SQX_P = .SQX;
 2532   3554  7                              SQX_N = .SQX[SYM$L_LINK];
 2533   3555  7
 2534   3556  7
 2535   3557  7                              ! If there are no more blocks, then we are finished.
 2536   3558  7                              !
 2537   3559  7                              IF .SQX_N EQL 0
 2538   3560  7                              THEN
 2539   3561  8                                  BEGIN
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

D 1
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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```
: 2540    3562  8                              REWRITE_RECORD(.SQX_NP);
: 2541    3563  8                              EXITLOOP;
: 2542    3564  7                              END;
: 2543    3565  7
: 2544    3566  7
: 2545    3567  7                          ! Otherwise, we must continue shuffling.  Read the next
: 2546    3568  7                          ! record.
: 2547    3569  7                          !
: 2548    3570  7                          SQX = READ_RECORD(.SQX_N);
: 2549    3571  7                          SQE = SQX[SYM$T_DATA];
: 2550    3572  7                          SQE_N = 0;
: 2551    3573  7                          CHS$MOVE(
: 2552    3574  7                              SQX$S_SQX,
: 2553    3575  7                              .SQE,
: 2554    3576  7                              SQX_P[SYM$T_DATA] +
: 2555    3577  7                                  (SQX$K_ENTRIES - 1) * SQX$S_SQX);
: 2556    3578  6                          END;
: 2557    3579  6
: 2558    3580  6
: 2559    3581  6                      RETURN SS$_NORMAL;
: 2560    3582  5                      END;
: 2561    3583  5
: 2562    3584  5
: 2563    3585  5              [1]:
: 2564    3586  5                      SQE = .SQE + SQX$S_SQX;
: 2565    3587  5
: 2566    3588  5
: 2567    3589  5                      TES;
: 2568    3590  4                  END;
: 2569    3591  3          END; ''
: 2570    3592  3
: 2571    3593  3
: 2572    3594  3      RELEASE_RECORD(.SQX_NP);
: 2573    3595  3      SQX_NP = .SQX_N;
: 2574    3596  3      SQX_P = .SQX;
: 2575    3597  3      SQX_N = .SQX[SYM$L_LINK];
: 2576    3598  2      END;
: 2577    3599  2
: 2578    3600  2
: 2579    3601  2  JBC$_NOSUCHQUE
: 2580    3602  1  END;
```

```
                    OFFC 00000 SJC_DELETE_QUEUE:
                                            .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11     ; 3391
                      5E        3C  C2 00002         SUBL2    #60, SP
                      50 00000000'  EF  D0 00005     MOVL     MBX, R0                          ; 3429
          08      06  A0        02  E0 0000C         BBS      #2, 6(R0), 1$
                      50 00042894  8F  D0 00011      MOVL     #272532, R0                      ; 3431
                                    04 00018         RET
                  0C  AE        01  D0 00019 1$:     MOVL     #1, SQX_NP                       ; 3434
                                01  DD 0001D         PUSHL    #1
          00000000G  EF        01  FB 0001F          CALLS    #1, READ_RECORD
                  04  AE        50  D0 00026         MOVL     R0, SQX_P
```

```
           50        04  AE 00000064  8F  C1 0002A        ADDL3   #100, SQX_P, RO          ; 3435
                     08  AE              60  D0 00033      MOVL    (RO), SQX_N
                                         03  12 00037 2$:  BNEQ    4$                       ; 3436
                                       0187  31 00039 3$:  BRW     21$
                               08  AE   DD 0003C 4$:       PUSHL   SQX_N                    ; 3438
             00000000G  EF            01  FB 0003F         CALLS   #1, READ_RECORD
                        10  AE          50  D0 00046       MOVL    RO, SQX
           57          10  AE          0C  C1 0004A        ADDL3   #12, SQX, SQE            ; 3439
                               14  AE   D4 0004F           CLRL    SQE_N                    ; 3440
                                        67  95 00052 5$:   TSTB    (SQE)                    ; 3442
                                        03  12 00054       BNEQ    6$
                                      014E  31 00056       BRW     20$
                        50              67  9A 00059 6$:   MOVZBL  (SQE), RO                ; 3449
           50    20 00000000' FF 00000000' EF 2D 0005C     CMPC5   VALUE_QUEUE, aVALUE_QUEUE+2, #32, RO, -
                               01  A7        00069                 1(SQE)
                                        03  1B 0006B       BLEQU   7$
                                      012D  31 0006D       BRW     19$
                                        C7  1F 00070 7$:   BLSSU   3$
                        6E              24  A7  D0 00072    MOVL    36(SQE), SMQ_N          ; 3471
                                        6E  DD 00076       PUSHL   SMQ_N
             00000000G  EF            01  FB 00078         CALLS   #1, READ_RECORD
                        56              50  D0 0007F       MOVL    RO, SMQ
                                      0115  C6  95 00082   TSTB    277(SMQ)                 ; 3476
                                        59  12 00086       BNEQ    11$
           54          11  A6          01  E1 00088        BBC     #1, 17(SMQ), 11$         ; 3477
                               00FC  C6 D5 0008D           TSTL    252(SMQ)                 ; 3478
                                        4E  12 00091       BNEQ    11$
           24          00      6E      00  2C 00093        MOVC5   #0, (SP), #0, #36, CTX   ; 3485
                               18  AE      00098
                               18  AE  9F 0009A 8$:        PUSHAB  CTX                      ; 3486
                                        02  DD 0009D       PUSHL   #2
                                        7E  7C 0009F       CLRQ    -(SP)
                                        7E  D4 000A1       CLRL    -(SP)
                                        56  DD 000A3       PUSHL   SMQ
                               18  AE  DD 000A5            PUSHL   SMQ_N                    ; 3488
                                        0F  DD 000A8       PUSHL   #15                      ; 3487
             00000000G  EF            08  FB 000AA         CALLS   #8, SEARCH_QUEUES        ; 3486
                        21              50  E9 000B1       BLBC    RO, 10$                  ; 3486
           08          10  A9          03  E1 000B4        BBC     #3, 16(SJH), 9$          ; 3496
                        50 000480F8  8F D0 000B9           MOVL    #295160, RO
                                        04 000C0           RET
                        10  A9          04  88 000C1 9$:   BISB2   #4, 16(SJH)              ; 3497
                                        7E  D4 000C5       CLRL    -(SP)                    ; 3498
                                        56  DD 000C7       PUSHL   SMQ
                                        58  7D 000C9       MOVQ    SJH_N, -(SP)
             00000000G  EF            04  FB 000CC         CALLS   #4, COMPLETE_JOB
                                        C5  11 000D3       BRB     8$                       ; 3486
                                        6E  DD 000D5 10$:  PUSHL   SMQ_N                    ; 3505
             00000000G  EF            01  FB 000D7         CALLS   #1, FIND_QUEUE_REFERENCES
                        08              50  E9 000DE       BLBC    RO, 12$
                        50 00048050  8F D0 000E1 11$:      MOVL    #294992, RO              ; 3507
                                        04 000E8           RET
                                        56  DD 000E9 12$:  PUSHL   SMQ                      ; 3512
                               04  AE  DD 000EB            PUSHL   SMQ_N
             00000000G  EF            02  FB 000EE         CALLS   #2, DELETE_SMQ_RECORD
                                        57  DD 000F5       PUSHL   SQE                      ; 3517
                               0C  AE  DD 000F7            PUSHL   SQX_N
```

```
                 00000000G  EF        02  FB 000FA         CALLS   #2, UPDATE_GETQUI_DATA
           50          10  AE        57  C3 00101 13$:     SUBL3   SQE, SQX, R0                    3524
           51     01D8  CO        9E 00106         MOVAB   472(R0), R1
           50     0200  CO        9E 0010B         MOVAB   512(R0), R0                     3527
  50       00    28  A7        51  2C 00110         MOVC5   R1, 40(SQE), #0, R0, (SQE)      3528
                             67     00116
                        14  AE        D5 00117         TSTL    SQE_N                          3536
                        30     12 0011A         BNEQ    16$
                        67     95 0011C         TSTB    (SQE)
                        2C     12 0011E         BNEQ    16$
                 01     0C  AE        D1 00120         CMPL    SQX_NP, #1                     3539
                 0D     12 00124         BNEQ    14$
           50    04  AE 00000064  8F  C1 00126         ADDL3   #100, SQX_P, R0               3540
                 60     D4 0012F         CLRL    (R0)
                 03     11 00131         BRB     15$
                        04  BE        04 00133 14$:     CLRL    @SQX_P                         3541
                        0C  AE        DD 00136 15$:     PUSHL   SQX_NP                         3542
                 00000000G  EF        01  FB 00139         CALLS   #1, REWRITE_RECORD
                        08  AE        DD 00140         PUSHL   SQX_N                          3543
                 00000000G  EF        01  FB 00143         CALLS   #1, DEALLOCATE_RECORD
                        4D     11 0014A         BRB     18$                            3538
                        0C  AE        DD 0014C 16$:     PUSHL   SQX_NP                         3551
                 00000000G  EF        01  FB 0014F         CALLS   #1, REWRITE_RECORD
                 0C  AE    08  AE        D0 00156         MOVL    SQX_N, SQX_NP                 3552
                 04  AE    10  AE        D0 0015B         MOVL    SQX, SQX_P                    3553
                 08  AE    10  BE        D0 00160         MOVL    @SQX, SQX_N                   3554
                        0C     12 00165         BNEQ    17$                            3559
                        0C  AE        DD 00167         PUSHL   SQX_NP                         3562
                 00000000G  EF        01  FB 0016A         CALLS   #1, REWRITE_RECORD
                        26     11 00171         BRB     18$                            3561
                        08  AE        DD 00173 17$:     PUSHL   SQX_N                          3570
                 00000000G  EF        01  FB 0C176         CALLS   #1, READ_RECORD
                        10  AE        50  D0 J0170         MOVL    R0, SQX
           57          10  AE        0C  C1 00181         ADDL3   #12, SQX, SQE                  3571
                        14  AE        D4 00186         CLRL    SQE_N                          3572
           56    04  AE 000001C4  8F  C1 00189         ADDL3   #452, SQX_P, R6               3576
           66                      67     28 28 00192         MOVC3   #40, (SQE), (R6)
                             FF68   31 00196         BRW     13$                            3518
                        50          01  D0 00199 18$:     MOVL    #1, R0                         3581
                        04     00:9C         RET
                        57          28  C0 0019D 19$:     ADDL2   #40, SQE                       3586
  FEAB       14  AE        01     0B  F1 001A0         ACBL    #11, #1, SQE_N, 5$             3440
                        0C  AE        DD 001A7 20$:     PUSHL   SQX_NP                         3594
                 00000000G  EF        01  FB 001AA         CALLS   #1, RELEASE_RECORD
                 0C  AE    08  AE        D0 001B1         MOVL    SQX_N, SQX_NP                 3595
                 04  AE    10  AE        D0 001B6         MOVL    SQX, SQX_P                    3596
                 08  AE    10  BE        D0 001BB         MOVL    @SQX, SQX_N                   3597
                             FE74   31 001C0         BRW     2$                             3436
                 50 00048038  8F  D0 001C3 21$:     MOVL    #294968, R0                    3602
                        04 001CA         RET
```

; Routine Size: 459 bytes,   Routine Base: CODE + 0FEE

SNDJBC
VO4-000

$SNDACC, $SNDSMB, and $SNDJBC services

G 1
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1

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SN
VO

```
  2582     3603  1 ROUTINE SJC_ENTER_FILE(SQX_N,SQE,SMQ_N,SMQ)=
  2583     3604  1
  2584     3605  1 !++
  2585     3606  1 !
  2586     3607  1 ! FUNCTIONAL DESCRIPTION:
  2587     3608  1 !     This routine processes the SJC$_ENTER_FILE (SMR$K_ENTER) request.
  2588     3609  1 !
  2589     3610  1 ! INPUT PARAMETERS:
  2590     3611  1 !     SQX_N            - Record number of SQX.
  2591     3612  1 !     SQE              - Pointer to SQX entry.
  2592     3613  1 !     SMQ_N            - Record number of SMQ.
  2593     3614  1 !     SMQ              - Pointer to SMQ.
  2594     3615  1 !
  2595     3616  1 ! IMPLICIT INPUTS:
  2596     3617  1 !     MBX              - Pointer to buffered mailbox message.
  2597     3618  1 !
  2598     3619  1 ! OUTPUT PARAMETERS:
  2599     3620  1 !     NONE
  2600     3621  1 !
  2601     3622  1 ! IMPLICIT OUTPUTS:
  2602     3623  1 !     NONE
  2603     3624  1 !
  2604     3625  1 ! ROUTINE VALUE:
  2605     3626  1 !     Completion status to be returned to requestor.
  2606     3627  1 !
  2607     3628  1 ! SIDE EFFECTS:
  2608     3629  1 !     NONE
  2609     3630  1 !
  2610     3631  1 !--
  2611     3632  1
  2612     3633  2 BEGIN
  2613     3634  2 MAP
  2614     3635  2     SQE:             REF BBLOCK,      ! Pointer to SQX entry
  2615     3636  2     SMQ:             REF BBLOCK;      ! Pointer to SMQ
  2616     3637  2 LOCAL
  2617     3638  2     SJH_N,                            ! Record number of SJH
  2618     3639  2     SJH:             REF BBLOCK,      ! Pointer to SJH
  2619     3640  2     SQR_N,                            ! Record number of SQR
  2620     3641  2     SQR:             REF BBLOCK,      ! Pointer to SQR
  2621     3642  2     SRB:             BBLOCK[512],     ! Local service response block
  2622     3643  2     RESULT,                           ! Result of enqueue
  2623     3644  2     ESMQ:            REF BBLOCK,      ! Pointer to executor SMQ
  2624     3645  2     STATUS_1,                         ! Status return
  2625     3646  2     STATUS_2,                         ! Status return
  2626     3647  2     STATUS_3,                         ! Status return
  2627     3648  2     STATUS_4;                         ! Status return
  2628     3649  2
  2629     3650  2
  2630     3651  2 ! Ensure that the requestor  as W access to the queue.
  2631     3652  2 !
  2632     3653  2 IF NOT CHECK_W_ACCESS(.SMQ)
  2633     3654  2 THEN
  2634     3655  2     RETURN JBC$_NOPRIV;
  2635     3656  2
  2636     3657  2
  2637     3658  2 ! Ensure that the requestor has W access to the log queue if specified.
  2638     3659  2 !
```

SNDJBC
V04-000

SSNDACC, SSNDSMB, and SSNDJBC services

H 1
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1

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SN
VO

```
2639    3660  2 IF .ITEM_PRESENT[SJC$_LOG_QUEUE]
2640    3661  2 THEN
2641    3662  2     IF NOT CHECK_W_ACCESS(.VALUE_LOG_QUEUE[1])
2642    3663  2     THEN
2643    3664  2         RETURN JBC$_NOPRIV;
2644    3665  2
2645    3666  2
2646    3667  2 ! Allocate the job record.
2647    3668  2 !
2648    3669  2 STATUS_1 = CREATE_SJH_RECORD(.SMQ_N, .SMQ; SJH_N, SJH);
2649    3670  2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
2650    3671  2
2651    3672  2
2652    3673  2 ! Apply options to the job record.
2653    3674  2 !
2654    3675  2 STATUS_2 = APPLY_SJH_OPTIONS(.SJH);
2655    3676  2 IF NOT .STATUS_2
2656    3677  2 THEN
2657    3678  3     BEGIN
2658    3679  3     DELETE_SJH_RECORD(.SJH_N, .SJH);
2659    3680  3     RETURN .STATUS_2;
2660    3681  2     END;
2661    3682  2
2662    3683  2
2663    3684  2 ! Default the form if necessary.
2664    3685  2 !
2665    3686  2 IF NOT .SMQ[SMQ$V_BATCH] AND .SJH[SJH$L_FORM_LINK] EQL 0
2666    3687  2 THEN
2667    3688  3     BEGIN
2668    3689  3     LOCAL
2669    3690  3         SFM_N;                              ! Record number of SFM
2670    3691  3
2671    3692  3     IF NOT FIND_FORM_NUMBER(0; SFM_N)
2672    3693  3     THEN
2673    3694  4         BEGIN
2674    3695  4         DELETE_SJH_RECORD(.SJH_N, .SJH);
2675    3696  4         RETURN JBC$_NOSUCHFORM;
2676    3697  3         END;
2677    3698  3     SJH[SJH$L_FORM_LINK] = .SFM_N;
2678    3699  2     END;
2679    3700  2
2680    3701  2
2681    3702  2 ! Create the file record.
2682    3703  2 !
2683    3704  2 STATUS_3 = CREATE_SQR_RECORD(.SJH; SQR_N, SQR);
2684    3705  2 IF NOT .STATUS_3
2685    3706  2 THEN
2686    3707  3     BEGIN
2687    3708  3     DELETE_SJH_RECORD(.SJH_N, .SJH);
2688    3709  3     RETURN .STATUS_3;
2689    3710  2     END;
2690    3711  2
2691    3712  2
2692    3713  2 ! Apply options to the file record.
2693    3714  2 !
2694    3715  2 STATUS_4 = APPLY_SQR_OPTIONS(.SJH, .SQR);
2695    3716  2 IF NOT .STATUS_4
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   I 1
V04-000   16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 87
                                          14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (20)

```
2696   3717  2  THEN
2697   3718  3      BEGIN
2698   3719  3      SQR[SQR$V_DELETE_FILE] = FALSE;
2699   3720  3      DELETE_SJR_RECORD(.SJH_N, .SJH);
2700   3721  3      DELETE_SQR_RECORD(.SQR_N, .SQR);
2701   3722  3      RETURN .STATUS_4;
2702   3723  2      END;
2703   3724  2
2704   3725  2
2705   3726  2  ! Enqueue the single job file record to the job header record.
2706   3727  2  !
2707   3728  2  SQR[SYM$W_SEQUENCE] = 1;
2708   3729  2  S.H[SJH$L_FILE_LIST] = SJH[SJH$L_FILE_LIST_END] = .SQR_N;
2709   3730  2  REWRITE_RECORD(.SQR_N);
2710   3731  2
2711   3732  2  ! Return the job identification.
2712   3733  2  !
2713   3734  2  !
2714   3735  2  RSP[RSP_W_ENTRY_NUMBER] = .SJH[SYM$L_ENTRY_NUMBER];
2715   3736  2
2716   3737  2
2717   3738  2  ! Enqueue the job on the appropriate queue.
2718   3739  2  !
2719   3740  2  ENQUEUE_JOB(.SJH_N, .SJH; RESULT, ESMQ);
2720   3741  2
2721   3742  2
2722   3743  2  ! Return status including required output items.
2723   3744  2  !
2724   3745  2  CREATE_SRB(SRB);
2725   3746  2  IF .ITEM_PRESENT[SJC$_ENTRY_NUMBER_OUTPUT]
2726   3747  2  THEN
2727   3748  3      BEGIN
2728   3749  3      LOCAL
2729   3750  3          P:              REF VECTOR[,WORD];
2730   3751  3
2731   3752  3      P = LOCATE_SRB_OUTPUT_ITEM(
2732   3753  3          SRB,
2733   3754  3          SJC$_ENTRY_NUMBER_OUTPUT, VALUE_ENTRY_NUMBER_OUTPUT);
2734   3755  3      P[0] = .SJH[SYM$L_ENTRY_NUMBER];
2735   3756  3      COMPLETE_SRB_OUTPUT_ITEM(SRB, 2);
2736   3757  3      END;
2737   3758  2  IF .ITEM_PRESENT[SJC$_JOB_STATUS_OUTPUT]
2738   3759  2  THEN
2739   3760  3      BEGIN
2740   3761  3      COMPLETE_SRB_OUTPUT_ITEM(
2741   3762  3          SRB,
2742   3763  3          JOB_STATUS_MESSAGE(
2743   3764  3              .RESULT,
2744   3765  3              LOCATE_SRB_OUTPUT_ITEM(
2745   3766  3                  SRB,
2746   3767  3                  SJC$_JOB_STATUS_OUTPUT, VALUE_JOB_STATUS_OUTPUT),
2747   3768  3              .SMQ,
2748   3769  3              .SJH,
2749   3770  3              .ESMQ));
2750   3771  2      END;
2751   3772  2  SEND_SERVICE_RESPONSE_MESSAGE(SRB, JBC$_NORMAL);
2752   3773  2
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 88   SND
V04-000   14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (20)   V04

J   1

```
; 2753        3774  2
; 2754        3775  2   REWRITE_RECORD(.SJH_N);
; 2755        3776  2   REWRITE_RECORD(.SMQ_N);
; 2756        3777  2 0
; 2757        3778  1 END;


                              OFFC 00000 SJC_ENTER_FILE:
                                              .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11   ; 3603
              59 00000000G  EF 9E 00002        MOVAB    LOCATE_SRB_OUTPUT_ITEM, R9
              58 00000000G  EF 9E 00009        MOVAB    REWRITE_RECORD, R8
              57 00000000G  EF 9E 00010        MOVAB    DELETE_SJH_RECORD, R7
              56 00000000'  EF 9E 00017        MOVAB    ITEM_PRESENT+12, R6
              5E     FE00    CE 9E 0001E        MOVAB    -512(SP), SP
              54       10    AC D0 00023        MOVL     SMQ, R4                               ; 3653
              54          54 DD 00027           PUSHL    R4
    00000000G EF          01 FB 00029           CALLS    #1, CHECK_W_ACCESS
              12          50 E9 00030           BLBC     R0, 1$
16            66          01 E1 00033           BBC      #1, ITEM_PRESENT+12, 2$              ; 3660
                   04F6   C6 DD 00037           PUSHL    VALUE_LOG_QUEUE+4                    ; 3662
    00000000G EF          01 FB 0003B           CALLS    #1, CHECK_W_ACCESS
              08          50 E8 00042           BLBS     R0, 2$
              50 00048020  8F D0 00045 1$:      MOVL     #294944, R0                         ; 3664
                          04    0004C           RET
              54          54 DD 0004D 2$:       PUSHL    R4                                   ; 3669
                     0C   AC DD 0004F           PUSHL    SMQ_N
    00000000G EF          02 FB 00052           CALLS    #2, CREATE_SJH_RECORD
              55          5A D0 00059           MOVL     R10, R5
              52          5B D0 0005C           MOVL     R11, R2
              01          50 E8 0005F           BLBS     STATUS_1, 3$                        ; 3670
                          04    00062           RET
              52          52 DD 00063 3$:       PUSHL    SJH                                 ; 3675
    00000000G EF          01 FB 00065           CALLS    #1, APPLY_SJH_OPTIONS
              5A          50 D0 0006C           MOVL     R0, STATUS_2
              0B          5A E8 0006F           BLBS     STATUS_2, 4$                        ; 3676
              52          52 DD 00072           PUSHL    SJH                                 ; 3679
              55          55 DD 00074           PUSHL    SJH_N
              67          02 FB 00076           CALLS    #2, DELETE_SJH_RECORD
              50          5A D0 00079           MOVL     STATUS_2, R0                        ; 3680
                          04    0007C           RET
              26       0C A4 E8 0007D 4$:       BLBS     12(R4), 6$                          ; 3686
                     00FC C2 D5 00081           TSTL     252(SJH)
              20          12    00085           BNEQ     6$
              7E          D4    00087           CLRL     -(SP)
    00000000G EF          01 FB 00089           CALLS    #1, FIND_FORM_NUMBER                ; 3692
              0F          50 E8 00090           BLBS     R0, 5$
              52          52 DD 00093           PUSHL    SJH                                 ; 3695
              55          55 DD 00095           PUSHL    SJH_N
              67          02 FB 00097           CALLS    #2, DELETE_SJH_RECORD
              50 00048158 8F D0 0009A           MOVL     #295256, R0                         ; 3696
                          04    000A1           RET
         00FC C2          5A D0 000A2 5$:       MOVL     SFM_N, 252(SJH)                     ; 3698
              52          52 DD 000A7 6$:       PUSHL    SJH                                 ; 3704
    00000000G EF          01 FB 000A9           CALLS    #1, CREATE_SQR_RECORD
```

```
                  53              50 D0 000B0        MOVL    R0, STATUS_3
                  09              53 E8 000B3        BLBS    STATUS_3, 7$                    3705
                                  52 DD 000B6        PUSHL   SJH                             3708
                                  55 DD 000B8        PUSHL   SJH_N
                  67              02 FB 000BA        CALLS   #2, DELETE_SJH_RECORD           3709
                                  26 11 000BD        BRB     8$                              3715
                         0804  8F BB 000BF   7$:     PUSHR   #^M<R2,R11>
  00000000G  EF          02 FB 000C3            CALLS   #2, APPLY_SQR_OPTIONS
                  53              50 D0 000CA        MOVL    R0, STATUS_4                     3716
                  19              53 E8 000CD        BLBS    STATUS_4, 9$                     3719
       0C  AB          01 8A 000D0        BICB2   #1, 12(SQR)                     3720
                                  52 DD 000D4        PUSHL   SJH
                                  55 DD 000D6        PUSHL   SJH_N
                  67              02 FB 000D8        CALLS   #2, DELETE_SJH_RECORD           3721
                  7E              5A 7D 000DB        MOVQ    SQR_N, -(SP)
  0C000000G  EF          02 FB 000DE        CALLS   #2, DELETE_SQR_RECORD
                  50              53 D0 000E5   8$:   MOVL    STATUS_4, R0                    3722
                                  04 000E8           RET
       06  AB          01 B0 000E9   9$:   MOVW    #1, 6(SQR)                      3728
     00F8  C2          5A D0 000ED        MOVL    SQR_N, 248(SJH)                 3729
     00F4  C2          5A D0 000F2        MOVL    SQR_N, 244(SJH)
                                  5A DD 000F7        PUSHL   SQR_N                           3730
                  68              01 FB 000F9        CALLS   #1, REWRITE_RECORD
   F4AE  C6       08  A2 B0 000FC        MOVW    8(SJH), RSP+2                   3735
                                  52 DD 00102        PUSHL   SJH                             3740
                                  55 DD 00104        PUSHL   SJH_N
  00000000G  EF          02 FB 00106        CALLS   #2, ENQUEUE_JOB
                                  5E DD 0010D        PUSHL   SP                              3745
  00000000G  EF          01 FB 0010F        CALLS   #1, CREATE_SRB
                         F7  A6 95 00116        TSTB    ITEM_PRESENT+3                  3746
                         1B  18 00119        BGEQ    10$
                         76  A6 9F 0011B        PUSHAB  VALUE_ENTRY_NUMBER_OUTPUT       3752
                         1F  DD 0011E        PUSHL   #31
                    08  AE 9F 00120        PUSHAB  SRB
                  69              03 FB 00123        CALLS   #3, LOCATE_SRB_OUTPUT_ITEM
                  60       08  A2 B0 00126        MOVW    8(SJH), (P)                    3755
                                  02 DD 0012A        PUSHL   #2                              3756
                    04  AE 9F 0012C        PUSHAB  SRB
  00000000G  EF          02 FB 0012F        CALLS   #2, COMPLETE_SRB_OUTPUT_ITEM
                  2B         FF  A6 E9 00136  10$:  BLBC    ITEM_PRESENT+11, 11$           3758
                         0804  8F BB 0013A        PUSHR   #^M<R2,R11>                     3769
                                  54 DD 0013E        PUSHL   R4                              3768
                    04DE  C6 9F 00140        PUSHAB  VALUE_JOB_STATUS_OUTPUT         3765
                  7E         58  8F 9A 00144        MOVZBL  #88, -(SP)
                    14  AE 9F 00148        PUSHAB  SRB
                  69              03 FB 0014B        CALLS   #3, LOCATE_SRB_OUTPUT_ITEM
                                  50 DD 0014E        PUSHL   R0
                                  5A DD 00150        PUSHL   RESULT                          3764
  00000000G  EF          05 FB 00152        CALLS   #5, JOB_STATUS_MESSAGE
                                  50 DD 00159        PUSHL   R0
                    04  AE 9F 0015B        PUSHAB  SRB                             3761
  00000000G  EF          02 FB 0015E        CALLS   #2, COMPLETE_SRB_OUTPUT_ITEM
                    00040001  8F DD 00165  11$:  PUSHL   #262145                       3772
                    04  AE 9F 0016B        PUSHAB  SRB
  00000000G  EF          02 FB 0016E        CALLS   #2, SEND_SERVICE_RESPONSE_MESSAGE
                                  55 DD 00175        PUSHL   SJH_N                           3775
                  68              01 FB 00177        CALLS   #1, REWRITE_RECORD
```

```
                        OC    AC  DD  0017A           PUSHL     SMQ_N                                      ;  3776
                68            01  FB  0017D           CALLS     #1, REWRITE_RECORD
                              50  D4  00180           CLRL      R0                                         ;  3778
                                  04  00182           RET
```

; Routine Size: 387 bytes,   Routine Base: CODE + 11B9

```
: 2759     3779  1 ROUTINE SJC_MERGE_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
: 2760     3780  1
: 2761     3781  1 !++
: 2762     3782  1 !
: 2763     3783  1 ! FUNCTIONAL DESCRIPTION:
: 2764     3784  1 !     This routine processes the SJC$_MERGE_QUEUE (SMR$K_MERGE) request.
: 2765     3785  1 !
: 2766     3786  1 ! INPUT PARAMETERS:
: 2767     3787  1 !     SQX_N               - Record number of SQX.
: 2768     3788  1 !     SQE                 - Pointer to SQX entry.
: 2769     3789  1 !     SMQ_N               - Record number of SMQ.
: 2770     3790  1 !     SMQ                 - Pointer to SMQ.
: 2771     3791  1 !
: 2772     3792  1 ! IMPLICIT INPUTS:
: 2773     3793  1 !     MBX                 - Pointer to buffered mailbox message.
: 2774     3794  1 !
: 2775     3795  1 ! OUTPUT PARAMETERS:
: 2776     3796  1 !     NONE
: 2777     3797  1 !
: 2778     3798  1 ! IMPLICIT OUTPUTS:
: 2779     3799  1 !     NONE
: 2780     3800  1 !
: 2781     3801  1 ! ROUTINE VALUE:
: 2782     3802  1 !     Completion status to be returned to requestor.
: 2783     3803  1 !
: 2784     3804  1 ! SIDE EFFECTS:
: 2785     3805  1 !     NONE
: 2786     3806  1 !
: 2787     3807  1 !--
: 2788     3808  1
: 2789     3809  2 BEGIN
: 2790     3810  2 MAP
: 2791     3811  2         SQE:            REF BBLOCK,     ! Pointer to SQX entry
: 2792     3812  2         SMQ:            REF BBLOCK;     ! Pointer to SMQ
: 2793     3813  2 LOCAL
: 2794     3814  2         DSMQ_N,                         ! Record number of destination SMQ
: 2795     3815  2         DSMQ:           REF BBLOCK,     ! Pointer to destination SMQ
: 2796     3816  2         SJH_N,                          ! Record number of SJH
: 2797     3817  2         SJH:            REF BBLOCK,     ! Pointer to SJH
: 2798     3818  2         CTX:            BBLOCK[QSM_K_CTXSIZE];
: 2799     3819  2
: 2800     3820  2
: 2801     3821  2 ! Pick up a pointer to the destination queue.
: 2802     3822  2 !
: 2803     3823  2 DSMQ_N = .VALUE_DESTINATION_QUEUE[0];
: 2804     3824  2 DSMQ = .VALUE_DESTINATION_QUEUE[1];
: 2805     3825  2
: 2806     3826  2
: 2807     3827  2 ! Ensure that the requestor has E access to both queues.
: 2808     3828  2 !
: 2809     3829  2 IF NOT CHECK_E_ACCESS(.SMQ)
: 2810     3830  2 OR NOT CHECK_E_ACCESS(.DSMQ)
: 2811     3831  2 THEN
: 2812     3832  2     RETURN JBC$_NOPRIV;
: 2813     3833  2
: 2814     3834  2
: 2815     3835  2 ! Ensure that the source queue is not the same as the destination queue,
```

```
: 2816    3836  2 ! and that the queue types are compatible.
: 2817    3837  2 !
: 2818    3838  2 IF .SMQ_N EQL .DSMQ_N
: 2819    3839  2 OR .SMQ[SMQ$V_BATCH] NEQ .DSMQ[SMQ$V_BATCH]
: 2820    3840  2 THEN
: 2821    3841  2     RETURN JBC$_INCDSTQUE;
: 2822    3842  2
: 2823    3843  2
: 2824    3844  2 ! Dequeue all jobs from the source queue and requeue them to the target queue.
: 2825    3845  2 !
: 2826    3846  2 CH$FILL(0, QSM_K_CTXSIZE, CTX);
: 2827    3847  2 WHILE SEARCH_QUEUES(
: 2828    3848  2     QSM_M_OPEN OR QSM_M_TIMER OR QSM_M_PENDING OR QSM_M_HOLD,
: 2829    3849  2     .SMQ_N, .SMQ,
: 2830    3850  2     0, 0,
: 2831    3851  2     0,
: 2832    3852  2     QSM_K_REMOVE,
: 2833    3853  2     CTX,
: 2834    3854  2     SJH_N, SJH)
: 2835    3855  2 DO
: 2836    3856  3     BEGIN
: 2837    3857  3     SJH[SJH$L_QUEUE_LINK] = .DSMQ_N;
: 2838    3858  3     ENQUEUE_JOB(.SJH_N, .SJH);
: 2839    3859  3     REWRITE_RECORD(.SJH_N);
: 2840    3860  2     END;
: 2841    3861  2
: 2842    3862  2
: 2843    3863  2 REWRITE_RECORD(.SMQ_N);
: 2844    3864  2
: 2845    3865  2
: 2846    3866  2 SS$_NORMAL
: 2847    3867  1 END;
```

```
                      OFFC 00000 SJC_MERGE_QUEUE:
                                          .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        : 3779
                        5E      24 C2 00002    SUBL2   #36, SP
                        57 00000000' EF D0 00005   MOVL    VALUE_DESTINATION_QUEUE, DSMQ_N       : 3823
                        52 00000000' EF D0 0000C   MOVL    VALUE_DESTINATION_QUEUE+4, DSMQ       : 3824
                        56      10 AC D0 00013   MOVL    SMQ, R6                              : 3829
                        56      DD 00017    PUSHL   R6
            00000000G EF      01 FB 00019    CALLS   #1, CHECK_E_ACCESS
                        0C      50 E9 00020    BLBC    R0, 1$
                        52      DD 00023    PUSHL   DSMQ                                   : 3830
            00000000G EF      01 FB 00025    CALLS   #1, CHECK_E_ACCESS
                        08      50 E8 0002C    BLBS    R0, 2$
                        50 00048020 8F L0 0002F 1$:  MOVL    #294944, R0                          : 3832
                              04 00036    RET
                        57      0C AC D1 00037 2$:  CMPL    SMQ_N, DSMQ_N                        : 3838
                              09 13 0003B    BEQL    3$
            50      0C A2    0C A6 8D 0003D    XORB3   12(R6), 12(DSMQ), R0                 : 3839
                        08      50 E9 00043    BLBC    R0, 4$
                        50 00048120 8F D0 00046 3$:  MOVL    #295200, R0                          : 3841
                              04 0004D    RET
```

```
          24              00              6E              00  2C 0004E 4$:     MOVC5    #0, (SP), #0, #36, CTX                          ; 3846
                                                          6E     00053
                                                          5E  DD 00054 5$:     PUSHL    SP                                             ; 3847
                                                          01  DD 00056         PUSHL    #1
                                                          7E  7C 00058         CLRQ     -(SP)
                                                          7E  D4 0005A         CLRL     -(SP)
                                                          56  DD 0005C         PUSHL    R6                                             ; 3849
                                          0C              AC  DD 0005E         PUSHL    SMQ_N
                                                          0F  DD 00061         PUSHL    #15                                            ; 3848
                          00000000G  EF                  08  FB 00063         CALLS    #8, SEARCH_QUEUES
                                          1A              50  E9 0006A         BLBC     R0, 6$                                         ; 3847
                                     0134  C9             57  D0 0006D         MOVL     DSMQ_N, 308(SJH)                               ; 3857
                                          7E              58  7D 00072         MOVQ     SJH_R, -(SP)                                   ; 3858
                          00000000G  EF                  02  FB 00075         CALLS    #2, ENQUEUE_JOB
                                                          58  DD 0007C         PUSHL    SJH_N                                          ; 3859
                          00000000G  EF                  01  FB 0007E         CALLS    #1, REWRITE_RECORD
                                                          CD  11 00085         BRB      5$                                             ; 3847
                                          0C              AC  DD 00087 6$:     PUSHL    SMQ_N                                          ; 3863
                          00000000G  EF                  01  FB 0008A         CALLS    #1, REWRITE_RECORD
                                          50              01  D0 00091         MOVL     #1, R0                                         ; 3867
                                                          04     00094         RET
```

; Routine Size: 149 bytes,   Routine Base: CODE + 133C

```
: 2849          3868   1 ROUTINE SJC_PAUSE_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
: 2850          3869   1
: 2851          3870   1 !++
: 2852          3871   1 !
: 2853          3872   1 ! FUNCTIONAL DESCRIPTION:
: 2854          3873   1 !     This routine processes the SJC$_PAUSE_QUEUE (SMR$K_PAUSE) request.
: 2855          3874   1 !
: 2856          3875   1 ! INPUT PARAMETERS:
: 2857          3876   1 !     SQX_N               - Record number of SQX.
: 2858          3877   1 !     SQE                 - Pointer to SQX entry.
: 2859          3878   1 !     SMQ_N               - Record number of SMQ.
: 2860          3879   1 !     SMQ                 - Pointer to SMQ.
: 2861          3880   1 !
: 2862          3881   1 ! IMPLICIT INPUTS:
: 2863          3882   1 !     MBX                 - Pointer to buffered mailbox message.
: 2864          3883   1 !
: 2865          3884   1 ! OUTPUT PARAMETERS:
: 2866          3885   1 !     NONE
: 2867          3886   1 !
: 2868          3887   1 ! IMPLICIT OUTPUTS:
: 2869          3888   1 !     NONE
: 2870          3889   1 !
: 2871          3890   1 ! ROUTINE VALUE:
: 2872          3891   1 !     Completion status to be returned to requestor.
: 2873          3892   1 !
: 2874          3893   1 ! SIDE EFFECTS:
: 2875          3894   1 !     NONE
: 2876          3895   1 !
: 2877          3896   1 !--
: 2878          3897   1
: 2879          3898   2 BEGIN
: 2880          3899   2 MAP
: 2881          3900   2     SQE:            REF BBLOCK,      ! Pointer to SQX entry
: 2882          3901   2     SMQ:            REF BBLOCK;      ! Pointer to SMQ
: 2883          3902   2 LOCAL
: 2884          3903   2     STATUS;                          ! Status return
: 2885          3904   2
: 2886          3905   2
: 2887          3906   2 ! Ensure that the requestor has E access to the queue.
: 2888          3907   2 !
: 2889          3908   2 IF NOT CHECK_E_ACCESS(.SMQ)
: 2890          3909   2 THEN
: 2891          3910   2     RETURN JBC$_NOPRIV;
: 2892          3911   2
: 2893          3912   2
: 2894          3913   2 ! If a previous service is in progress, refuse this request.
: 2895          3914   2 !
: 2896          3915   2 IF .SMQ[SMQ$V_PAUSING]
: 2897          3916   2 OR .SMQ[SMQ$V_RESETTING]
: 2898          3917   2 OR .SMQ[SMQ$V_RESUMING]
: 2899          3918   2 OR .SMQ[SMQ$V_STARTING]
: 2900          3919   2 OR .SMQ[SMQ$V_STOPPING]
: 2901          3920   2 THEN
: 2902          3921   2     RETURN JBC$_INCOMPLETE;
: 2903          3922   2
: 2904          3923   2
: 2905          3924   2 ! If this is a generic or logical queue, mark the queue stopped.
```

```
 2906    3925    2 :
 2907    3926    2 IF .SMQ[SMQ$V_GENERIC_QUEUE]
 2908    3927    2 OR .SMQ[SMQ$L_ASSIGNED_QUEUE_LINK] NEQ 0
 2909    3928    2 THEN
 2910    3929    2     SMQ[SMQ$V_STOPPED] = TRUE
 2911    3930    2
 2912    3931    2
 2913    3932    2 ELSE IF TESTBITCS(SMQ[SMQ$V_PAUSED])
 2914    3933    2 THEN
 2915    3934    3     BEGIN
 2916    3935    3
 2917    3936    3     ! If there are starting jobs in the queue, remove these.
 2918    3937    3     !
 2919    3938    3     REQUEUE_STARTING_JOBS(.SMQ_N, .SMQ);
 2920    3939    3
 2921    3940    3
 2922    3941    3     ! If there are executing jobs, pause them.
 2923    3942    3     !
 2924    3943    3     IF .SMQ[SMQ$B_CURRENT_JOB_COUNT] NEQ 0
 2925    3944    3     THEN
 2926    3945    4         BEGIN
 2927    3946    4
 2928    3947    4         ! If this is a remote queue, enter a remote request.  Otherwise, issue
 2929    3948    4         ! the pause.
 2930    3949    4         !
 2931    3950    4         SMQ[SMQ$V_PAUSED] = FALSE;
 2932    3951    5         IF SYSID_NEQ(THIS_SYSID, SMQ[SMQ$T_SYSID])
 2933    3952    4         THEN
 2934    3953    4             STATUS = CREATE_SRQ_RECORD(SRQ$K_PAUSE_QUEUE, .SMQ_N, .SMQ)
 2935    3954    4         ELSE
 2936    3955    4             STATUS = PAUSE_EXECUTION(.SMQ_N, .SMQ);
 2937    3956    4
 2938    3957    4
 2939    3958    4         ! If the pause failed, allow the queue to restart.
 2940    3959    4         !
 2941    3960    4         IF NOT .STATUS AND .STATUS NEQ 0
 2942    3961    4         THEN
 2943    3962    4             FIND_PENDING_JOBS(.SMQ_N, .SMQ);
 2944    3963    4
 2945    3964    4
 2946    3965    4         REWRITE_RECORD(.SMQ_N);
 2947    3966    4         RETURN .STATUS;
 2948    3967    3         END;
 2949    3968    2     END;
 2950    3969    2
 2951    3970    2
 2952    3971    2 REWRITE_RECORD(.SMQ_N);
 2953    3972    2 SS$_NORMAL
 2954    3973    1 END;
```

```
                        003C 00000 SJC_PAUSE_QUEUE:
                                    .WORD    Save R2,R3,R4,R5                                    ; 3868
              55 00000000G  EF  9E 00002      MOVAB    REWRITE_RECORD, R5
```

```
                      52         10 AC  D0 00009        MOVL    SMQ, R2                          ; 3908
                                 52  DD 0000D           PUSHL   R2
           00000000G  EF             01  FB 0000F       CALLS   #1, CHECK_E_ACCESS
                      08             50  E8 00016       BLBS    R0, 1$
                      50  00048020   8F  D0 00019       MOVL    #294944, R0                      ; 3910
                                     04  00020          RET
                      53         10 A2  9E 00021 1$:    MOVAB   16(R2), R3                       ; 3915
           10         63             03  E0 00025       BBS     #3, (R3), 2$
           0C         63             05  E0 00029       BBS     #5, (R3), 2$                     ; 3916
           08         63             06  E0 0002D       BBS     #6, (R3), 2$                     ; 3917
                      04         01 A3  E8 00031        BLBS    1(R3), 2$                        ; 3918
           08         63             0A  E1 00035       BBC     #10, (R3), 3$                    ; 3919
                      50  00048138   8F  D0 00039 2$:   MOVL    #295224, R0                      ; 3921
                                     04  00040          RET
           05     0D A2             02  E0 00041 3$:    BBS     #2, 13(R2), 4$                   ; 3926
                  2C A2             D5  00046           TSTL    44(R2)                           ; 3927
                      06             13  00049          BEQL    5$
               01 A3                02  88 0004B 4$:    BISB2   #2, 1(R3)                        ; 3929
                      68             11  0004F          BRB     10$
           64         63             02  E2 00051 5$:   BBSS    #2, (R3), 10$                    ; 3932
                                 52  DD 00055           PUSHL   R2                               ; 3938
                      54         0C AC  D0 00057        MOVL    SMQ_N, R4
                                 54  DD 0005B           PUSHL   R4
           00000000G  EF             02  FB 0005D       CALLS   #2, REQUEUE_STARTING_JOBS
                      0115          C2  95 00064        TSTB    277(R2)                          ; 3943
                      4F             13  00068          BEQL    10$
                      63             04  8A 0006A       BICB2   #4, (R3)                         ; 3950
                0106 C2 00000000'   EF  D1 0006D        CMPL    THIS_SYSID, 262(R2)              ; 3951
                      0B             12  00076          BNEQ    6$
                010A C2 00000000'   EF  B1 00078        CMPW    THIS_SYSID+4, 266(R2)
                      0F             13  00081          BEQL    7$
                                 52  DD 00083 6$:       PUSHL   R2                               ; 3953
                                 54  DD 00085           PUSHL   R4
                                 06  DD 00087           PUSHL   #6
           00000000G  EF             03  FB 00089       CALLS   #3, CREATE_SRQ_RECORD
                      0B             11  00090          BRB     8$
                                 52  DD 00092 7$:       PUSHL   R2                               ; 3955
                                 54  DD 00094           PUSHL   R4
           00000000G  EF             C2  FB 00096       CALLS   #2, PAUSE_EXECUTION
                      53             50  D0 0009D 8$:    MOVL    R0, STATUS
                      0D             53  E8 000A0        BLBS    STATUS, 9$                       ; 3960
                      0B             13  000A3          BEQL    9$
                                 52  DD 000A5           PUSHL   R2                               ; 3962
                                 54  DD 000A7           PUSHL   R4
           00000000G  EF             02  FB 000A9       CALLS   #2, FIND_PENDING_JOBS
                      54             DD  000B0 9$:       PUSHL   R4                               ; 3965
                      65             01  FB 000B2       CALLS   #1, REWRITE_RECORD
                      50             53  D0 000B5       MOVL    STATUS, R0                       ; 3966
                                     04  000B8          RET
                      0C         AC  DD 000B9 10$:       PUSHL   SMQ_N                           ; 3971
                      65             01  FB 000BC       CALLS   #1, REWRITE_RECORD
                      50             01  D0 000BF       MOVL    #1, R0                           ; 3973
                                     04  000C2          RET
```

; Routine Size: 195 bytes,   Routine Base: CODE + 13D1

```
; 2956        3974   1 ROUTINE SJC_RESERVED_FUNC_1=
; 2957        3975   1
; 2958        3976   1 !++
; 2959        3977   1 !
; 2960        3978   1 ! FUNCTIONAL DESCRIPTION:
; 2961        3979   1 !      This routine processes the SJC$_RESERVED_FUNC_1 request.
; 2962        3980   1 !
; 2963        3981   1 ! INPUT PARAMETERS:
; 2964        3982   1 !      NONE
; 2965        3983   1 !
; 2966        3984   1 ! IMPLICIT INPUTS:
; 2967        3985   1 !      NONE
; 2968        3986   1 !
; 2969        3987   1 ! OUTPUT PARAMETERS:
; 2970        3988   1 !      NONE
; 2971        3989   1 !
; 2972        3990   1 ! IMPLICIT OUTPUTS:
; 2973        3991   1 !      NONE
; 2974        3992   1 !
; 2975        3993   1 ! ROUTINE VALUE:
; 2976        3994   1 !      Completion status to be returned to requestor.
; 2977        3995   1 !
; 2978        3996   1 ! SIDE EFFECTS:
; 2979        3997   1 !      NONE
; 2980        3998   1 !
; 2981        3999   1 !--
; 2982        4000   1
; 2983        4001   2 BEGIN
; 2984        4002   2
; 2985        4003   2
; 2986        4004   2 ! Ensure that the requestor has OPER privilege.
; 2987        4005   2 !
; 2988        4006   2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
; 2989        4007   2 THEN
; 2990        4008   2     RETURN JBC$_NOOPER;
; 2991        4009   2
; 2992        4010   2
; 2993        4011   2 SS$_NORMAL
; 2994        4012   1 END;
```

```
                                          0000 00000 SJC_RESERVED_FUNC_1:
                                                            .WORD    Save nothing              ; 3974
                          50 00000000' EF  D0 00002         MOVL     MBX, R0                   ; 4006
                08    06  A0           02  E0 00009         BBS      #2, 6(R0), 1$
                          50 00042894  8F  D0 0000E         MOVL     #272532, R0               ; 4008
                                       04  00015            RET
                          50           01  D0 00016 1$:     MOVL     #1, R0                    ; 4012
                                       04  00019            RET
```

; Routine Size: 26 bytes,   Routine Base: CODE + 1494

```
: 2996        4013  1 ROUTINE SJC_RESERVED_FUNC_2=
: 2997        4014  1
: 2998        4015  1 !++
: 2999        4016  1 !
: 3000        4017  1 !  FUNCTIONAL DESCRIPTION:
: 3001        4018  1 !        This routine processes the SJC$_RESERVED_FUNC_2 request.
: 3002        4019  1 !
: 3003        4020  1 !  INPUT PARAMETERS:
: 3004        4021  1 !        NONE
: 3005        4022  1 !
: 3006        4023  1 !  IMPLICIT INPUTS:
: 3007        4024  1 !        NONE
: 3008        4025  1 !
: 3009        4026  1 !  OUTPUT PARAMETERS:
: 3010        4027  1 !        NONE
: 3011        4028  1 !
: 3012        4029  1 !  IMPLICIT OUTPUTS:
: 3013        4030  1 !        NONE
: 3014        4031  1 !
: 3015        4032  1 !  ROUTINE VALUE:
: 3016        4033  1 !        Completion status to be returned to requestor.
: 3017        4034  1 !
: 3018        4035  1 !  SIDE EFFECTS:
: 3019        4036  1 !        NONE
: 3020        4037  1 !
: 3021        4038  1 !--
: 3022        4039  1
: 3023        4040  2 BEGIN
: 3024        4041  2
: 3025        4042  2
: 3026        4043  2 ! Ensure that the requestor has OPER privilege.
: 3027        4044  2 !
: 3028        4045  2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
: 3029        4046  2 THEN
: 3030        4047  2     RETURN JBC$_NOOPER;
: 3031        4048  2
: 3032        4049  2
: 3033        4050  2 SS$_NORMAL
: 3034        4051  1 END;
```

```
                              0000 00000 SJC_RESERVED_FUNC_2:
                                                    .WORD   Save nothing                    : 4013
                      50 00000000'  EF D0 00002      MOVL    MBX, R0                         : 4045
            08        06 A0         02 E0 00009      BBS     #2, 6(R0), 1$
                      50 00042894   8F D0 0000E      MOVL    #272532, R0                     : 4047
                                    04 00015         RET
                      50            01 D0 00016 1$:  MOVL    #1, R0                          : 4051
                                    04 00019         RET
```

; Routine Size: 26 bytes,   Routine Base: CODE + 14AE

```
3036    4052    1 ROUTINE SJC_RESET_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
3037    4053    1
3038    4054    1 !++
3039    4055    1 !
3040    4056    1 !   FUNCTIONAL DESCRIPTION:
3041    4057    1 !           This routine processes the SJC$_RESET_QUEUE request.
3042    4058    1 !
3043    4059    1 !   INPUT PARAMETERS:
3044    4060    1 !           SQX_N               - Record number of SQX.
3045    4061    1 !           SQE                 - Pointer to SQX entry.
3046    4062    1 !           SMQ_N               - Record number of SMQ.
3047    4063    1 !           SMQ                 - Pointer to SMQ.
3048    4064    1 !
3049    4065    1 !   IMPLICIT INPUTS:
3050    4066    1 !           MBX                 - Pointer to buffered mailbox message.
3051    4067    1 !
3052    4068    1 !   OUTPUT PARAMETERS:
3053    4069    1 !           NONE
3054    4070    1 !
3055    4071    1 !   IMPLICIT OUTPUTS:
3056    4072    1 !           NONE
3057    4073    1 !
3058    4074    1 !   ROUTINE VALUE:
3059    4075    1 !           Completion status to be returned to requestor.
3060    4076    1 !
3061    4077    1 !   SIDE EFFECTS:
3062    4078    1 !           NONE
3063    4079    1 !
3064    4080    1 !--
3065    4081    1
3066    4082    2 BEGIN
3067    4083    2 MAP
3068    4084    2         SQE:            REF BBLOCK,      ! Pointer to SQX entry
3069    4085    2         SMQ:            REF BBLOCK;      ! Pointer to SMQ
3070    4086    2 LOCAL
3071    4087    2         STATUS;                          ! Status return
3072    4088    2
3073    4089    2
3074    4090    2 ! Ensure that the requestor has E access to the queue.
3075    4091    2 !
3076    4092    2 IF NOT CHECK_E_ACCESS(.SMQ)
3077    4093    2 THEN
3078    4094    2     RETURN JBC$_NOPRIV;
3079    4095    2
3080    4096    2
3081    4097    2 ! If a previous service is in progress, cancel it.
3082    4098    2 !
3083    4099    2 IF .SMQ[SMQ$V_PAUSING]
3084    4100    2 OR .SMQ[SMQ$V_RESETTING]
3085    4101    2 OR .SMQ[SMQ$V_RESUMING]
3086    4102    2 OR .SMQ[SMQ$V_STARTING]
3087    4103    2 OR .SMQ[SMQ$V_STOPPING]
3088    4104    2 THEN
3089    4105    3     BEGIN
3090    4106    3     SCAN_INCOMPLETE_SERVICES(ISRV_K_PURGE_SMQ, .SMQ_N);
3091    4107    3     SMQ[SMQ$V_PAUSING] = FALSE;
3092    4108    3     SMQ[SMQ$V_RESETTING] = FALSE;
```

```
: 3093      4109  3        SMQ[SMQSV_RESUMING] = FALSE;
: 3094      4110  3        SMQ[SMQSV_STARTING] = FALSE;
: 3095      4111  3        SMQ[SMQSV_STOPPING] = FALSE;
: 3096      4112  2        END;
. 3097      4113  2
. 3098      4114  2
. 3099      4115  2  ! If there are starting jobs in the queue, remove these.
. 3100      4116  2  !
. 3101      4117  2  SMQ[SMQSV_STOPPED] = TRUE;
. 3102      4118  2  REQUEUE_STARTING_JOBS(.SMQ_N, .SMQ);
. 3103      4119  2
. 3104      4120  2
. 3105      4121  2  ! Execute the reset.  If the queue has a symbiont or there are executing jobs,
. 3106      4122  2  ! the reset must be done by the executor node.
. 3107      4123  2  !
. 3108      4124  3  IF SYSID_NEQ(THIS_SYSID, SMQ[SMQST_SYSID])
. 3109      4125  3  AND (.SMQ[SMQSB_CURRENT_JOB_COUNT] NEQ 0 OR .SMQ[SMQSL_STREAM_SCT] NEQ 0)
. 3110      4126  2  THEN
. 3111      4127  3      BEGIN
. 3112      4128  3      SMQ[SMQSV_STOPPED] = FALSE;
. 3113      4129  3      STATUS = CREATE_SRQ_RECORD(SRQSK_RESET_QUEUE, .SMQ_N, .SMQ);
. 3114      4130  3      IF .STATUS NEQ 0 THEN FIND_PENDING_JOBS(.SMQ_N, .SMQ);
. 3115      4131  3      REWRITE_RECORD(.SMQ_N);
. 3116      4132  3      RETURN .STATUS;
. 3117      4133  3      END
. 3118      4134  2  ELSE
. 3119      4135  2      RESET_EXECUTOR_QUEUE(.SMQ_N, .SMQ);
. 3120      4136  2
. 3121      4137  2
. 3122      4138  2  REWRITE_RECORD(.SMQ_N);
. 3123      4139  2  SS$_NORMAL
. 3124      4140  1  END;
```

```
                              003C 00000 SJC_RESET_QUEUE:
                                                      .WORD     Save R2,R3,R4,R5                         ; 4052
                        55 00000000G  EF  9E  00002    MOVAB     REWRITE_RECORD, R5
                        53          10  AC  D0  00009    MOVL      SMQ, R3                                ; 4092
                                        53  DD  0000D    PUSHL     R3
            00000000G  EF              01  FB  0000F    CALLS     #1, CHECK_E_ACCESS
                        08              50  E8  00016    BLBS      R0, 1$
                        50 00048020  8F  D0  00019    MOVL      #294944, R0                            ; 4094
                                        04      00020    RET
                        52          10  A3  9E  00021 1$: MOVAB   16(R3), R2                             ; 4099
            10          62              03  E0  00025    BBS       #3, (R2), 2$
            0C          62              05  E0  00029    BBS       #5, (R2), 2$                          ; 4100
            08          62              06  E0  0002D    BBS       #6, (R2), 2$                          ; 4101
                        04          01  A2  E8  00031    BLBS      1(R2), 2$                             ; 4102
            11          62              0A  E1  00035    BBC       #10, (R2), 3$                         ; 4103
                                    0C  AC  DD  00039 2$: PUSHL   SMQ_N                                  ; 4106
                                        04  DD  0003C    PUSHL     #4
            00000000G  EF              02  FB  0003E    CALLS     #2, SCAN_INCOMPLETE_SERVICES
                        62          0568 8F  AA  00045    BICW2    #1384, (R2)                           ; 4111
                        01          A2  02  88  0004A 3$: BISB2   #2, 1(R2)                             ; 4117
```

```
                          53  DD 0004E              PUSHL   R3                                          ; 4118
              54    OC    AC  DO 00050              MOVL    SMQ_N, R4
                          54  DD 00054              PUSHL   R4
     00000000G  EF        02  FB 00056              CALLS   #2, REQUEUE_STARTING_JOBS
         0106  C3 00000000' EF D1 0005D             CMPL    THIS_SYSID,-262(R3)                        ; 4124
                          0B  12 00066              BNEQ    4$
         010A  C3 00000000' EF B1 00068             CMPW    THIS_SYSID+4, 266(R3)
                          36  13 00071              BEQL    7$
                  0115    C3  95 00073 4$:          TSTB    277(R3)                                    ; 4125
                          06  12 00077              BNEQ    5$
                  00FC    C3  D5 00079              TSTL    252(R3)
                          2A  13 0007D              BEQL    7$
              01    A2    02  8A 0007F 5$:          BICB2   #2, 1(R2)                                  ; 4128
                          53  DD 00083              PUSHL   R3                                          ; 4129
                          54  DD 00085              PUSHL   R4
                          08  DD 00087              PUSHL   #8
     00000000G  EF        03  FB 00089              CALLS   #3, CREATE_SRQ_RECORD
                  52      50  D0 00090              MOVL    R0, STATUS
                          0B  13 00093              BEQL    6$                                          ; 4130
                          53  DD 00095              PUSHL   R3
                          54  DD 00097              PUSHL   R4
     00000000G  EF        02  FB 00099              CALLS   #2, FIND_PENDING_JOBS
                          54  DD 000A0 6$:          PUSHL   R4                                          ; 4131
                  65      01  FB 000A2              CALLS   #1, REWRITE_RECORD
                  50      52  D0 000A5              MOVL    STATUS, R0                                  ; 4132
                          04     000A8              RET
                          53  DD 000A9 7$:          PUSHL   R3                                          ; 4135
                          54  DD 000AB              PUSHL   R4
     00000000G  EF        02  FB 000AD              CALLS   #2, RESET_EXECUTOR_QUEUE
                          54  DD 000B4              PUSHL   R4                                          ; 4138
                  65      01  FB 000B6              CALLS   #1, REWRITE_RECORD
                  50      01  D0 000B9              MOVL    #1, R0                                      ; 4140
                          04     000BC              RET
```

; Routine Size: 189 bytes,   Routine Base: CODE + 14C8

```
3126    4141   1 ROUTINE SET_ACCOUNTING_FLAGS=
3127    4142   1
3128    4143   1 !++
3129    4144   1 !
3130    4145   1 ! FUNCTIONAL DESCRIPTION:
3131    4146   1 !     This routine sets bits in the accounting control flag longword.  It
3132    4147   1 !     executes in kernel mode.
3133    4148   1 !
3134    4149   1 ! INPUT PARAMETERS:
3135    4150   1 !     AP contains a mask of bits to be set in the accounting flags.
3136    4151   1 !
3137    4152   1 ! IMPLICIT INPUTS:
3138    4153   1 !     NONE
3139    4154   1 !
3140    4155   1 ! OUTPUT PARAMETERS:
3141    4156   1 !     NONE
3142    4157   1 !
3143    4158   1 ! IMPLICIT OUTPUTS:
3144    4159   1 !     EXE$GL_ACMFLAGS updated.
3145    4160   1 !
3146    4161   1 ! ROUTINE VALUE:
3147    4162   1 !     SS$_NORMAL
3148    4163   1 !
3149    4164   1 ! SIDE EFFECTS:
3150    4165   1 !     NONE
3151    4166   1 !
3152    4167   1 !--
3153    4168   1
3154    4169   2 BEGIN
3155    4170   2 BUILTIN
3156    4171   2     AP;
3157    4172   2
3158    4173   2
3159    4174   2 ! Set the requested bits in EXE$GL_ACMFLAGS.
3160    4175   2 !
3161    4176   2 EXE$GL_ACMFLAGS = .EXE$GL_ACMFLAGS OR .AP;
3162    4177   2 SS$_NORMAL
3163    4178   1 END;
```

```
                          0000 00000 SET_ACCOUNTING_FLAGS:
                                          .WORD   Save nothing                      ; 4141
          00000000G  00            5C C8 00002   BISL2   AP, EXE$GL_ACMFLAGS          ; 4176
                     50            01 D0 00009   MOVL    #1, R0                      ; 4178
                                   04 0000C      RET
```

; Routine Size: 13 bytes,   Routine Base: CODE + 1585

```
; 3165          4179  1 ROUTINE SJC_START_ACCOUNTING=
; 3166          4180  1
; 3167          4181  1 !++
; 3168          4182  1 !
; 3169          4183  1 ! FUNCTIONAL DESCRIPTION:
; 3170          4184  1 !       This routine processes the SJC$_START_ACCOUNTING (ACC$K_ENABACC,
; 3171          4185  1 !       ACC$K_ENABSEL, and ACC$K_NEWFILE) request.
; 3172          4186  1 !
; 3173          4187  1 ! INPUT PARAMETERS:
; 3174          4188  1 !       NONE
; 3175          4189  1 !
; 3176          4190  1 ! IMPLICIT INPUTS:
; 3177          4191  1 !       MBX                     - Pointer to buffered mailbox message.
; 3178          4192  1 !
; 3179          4193  1 ! OUTPUT PARAMETERS:
; 3180          4194  1 !       NONE
; 3181          4195  1 !
; 3182          4196  1 ! IMPLICIT OUTPUTS:
; 3183          4197  1 !       NONE
; 3184          4198  1 !
; 3185          4199  1 ! ROUTINE VALUE:
; 3186          4200  1 !       Completion status to be returned to requestor.
; 3187          4201  1 !
; 3188          4202  1 ! SIDE EFFECTS:
; 3189          4203  1 !       NONE
; 3190          4204  1 !
; 3191          4205  1 !--
; 3192          4206  1
; 3193          4207  2 BEGIN
; 3194          4208  2
; 3195          4209  2 ! Ensure that the requestor has OPER privilege.
; 3196          4210  2 !
; 3197          4211  2 IF NOT .BBLOCK[MBX[ACMSQ_PRVMSK], PRV$V_OPER]
; 3198          4212  2 THEN
; 3199          4213  2     RETURN JBC$_NOOPER;
; 3200          4214  2
; 3201          4215  2
; 3202          4216  2 IF .ITEM_PRESENT[SJC$_ACCOUNTING_TYPES]
; 3203          4217  2 THEN
; 3204          4218  3     $CMKRNL(ROUTIN=SET_ACCOUNTING_FLAGS, ARGLST=.VALUE_ACCOUNTING_TYPES)
; 3205          4219  2 ELSE
; 3206          4220  3     BEGIN
; 3207          4221  3     LOCAL
; 3208          4222  3         FAB:              REF BBLOCK;      ! Pointer to accounting FAB
; 3209          4223  3
; 3210          4224  3
; 3211          4225  3     FAB = .ACCOUNTING_FABS[0];
; 3212          4226  3     IF .FAB[FAB$W_IFI] EQL 0 THEN OPEN_ACCOUNTING_FILE(FALSE);
; 3213          4227  3     IF .ITEM_PRESENT[SJC$_NEW_VERSION] THEN OPEN_ACCOUNTING_FILE(FALSE);
; 3214          4228  2     END;
; 3215          4229  2
; 3216          4230  2
; 3217          4231  2 SS$_NORMAL
; 3218          4232  1 END;
```

```
                                                                .EXTRN  SYS$CMKRNL

                                        000C 00C)0 SJC_START_ACCOUNTING:
                                                                .WORD   Save R2,R3                              4179
                        53 00000000G  EF  9E 00002              MOVAB   OPEN_ACCOUNTING_FILE, R3
                        52 00000000'  EF  9E 00009              MOVAB   MBX, R2
                        50            62  D0 00010              MOVL    MBX, R0                                 4211
            08   06     A0            02  E0 00013              BBS     #2, 6(R0), 1$                           4213
                        50 00042894   8F  D0 00018              MOVL    #272532, R0
                                      04 0001F                  RET
            10   0BC0   C2            02  E1 00020 1$:           BBC     #2, ITEM_PRESENT, 2$                    4216
                             0BE6     C2  DD 00026              PUSHL   VALUE_ACCOUNTING_TYPES                  4218
                             C6       AF  9F 0002A              PUSHAB  SET_ACCOUNTING_FLAGS
        00000000G  00                 02  FB 0002D              CALLS   #2, SYS$CMKRNL
                                      19  11 00034              BRB     4$
                        50   0328     C2  D0 00036 2$:          MOVL    ACCOUNTING_FABS, FAB                    4225
                             02       A0  B5 0003B              TSTW    2(FAB)                                  4226
                                      05  12 0003E              BNEQ    3$
                                      7E  D4 00040              CLRL    -(SP)
                        63            01  FB 00042              CALLS   #1, OPEN_ACCOUNTING_FILE
                        05   0BCD     C2  E9 00045 3$:          BLBC    ITEM_PRESENT+13, 4$                     4227
                                      7E  D4 0004A              CLRL    -(SP)
                        63            01  FB 0004C              CALLS   #1, OPEN_ACCOUNTING_FILE
                        50            01  D0 0004F 4$:          MOVL    #1, R0                                  4232
                                      04 00052                  RET
```

; Routine Size: 83 bytes,   Routine Base: CODE + 1592

```
 3220    4233   1 ROUTINE SJC_START_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
 3221    4234   1
 3222    4235   1 !++
 3223    4236   1 !
 3224    4237   1 ! FUNCTIONAL DESCRIPTION:
 3225    4238   1 !     This routine processes the SJC$_START_QUEUE (SMR$K_START) request.
 3226    4239   1 !
 3227    4240   1 ! INPUT PARAMETERS:
 3228    4241   1 !     SQX_N                   - Record number of SQX.
 3229    4242   1 !     SQE                     - Pointer to SQX entry.
 3230    4243   1 !     SMQ_N                   - Record number of SMQ.
 3231    4244   1 !     SMQ                     - Pointer to SMQ.
 3232    4245   1 !
 3233    4246   1 ! IMPLICIT INPUTS:
 3234    4247   1 !     MBX                     - Pointer to buffered mailbox message.
 3235    4248   1 !
 3236    4249   1 ! OUTPUT PARAMETERS:
 3237    4250   1 !     NONE
 3238    4251   1 !
 3239    4252   1 ! IMPLICIT OUTPUTS:
 3240    4253   1 !     NONE
 3241    4254   1 !
 3242    4255   1 ! ROUTINE VALUE:
 3243    4256   1 !     Completion status to be returned to requestor.
 3244    4257   1 !
 3245    4258   1 ! SIDE EFFECTS:
 3246    4259   1 !     NONE
 3247    4260   1 !
 3248    4261   1 !--
 3249    4262   1
 3250    4263   2 BEGIN
 3251    4264   2 MAP
 3252    4265   2         SQE:            REF BBLOCK,     ! Pointer to SQX entry
 3253    4266   2         SMQ:            REF BBLOCK;     ! Pointer to SMQ
 3254    4267   2 LOCAL
 3255    4268   2         STATUS_1,                       ! Status return
 3256    4269   2         STATUS_2,                       ! Status return
 3257    4270   2         STATUS_3,                       ! Status return
 3258    4271   2         STATUS_4;                       ! Status return
 3259    4272   2
 3260    4273   2
 3261    4274   2 ! Ensure that the requestor has E access to the queue.
 3262    4275   2 !
 3263    4276   2 IF NOT CHECK_E_ACCESS(.SMQ)
 3264    4277   2 THEN
 3265    4278   2     RETURN JBC$_NOPRIV;
 3266    4279   2
 3267    4280   2
 3268    4281   2 ! If a previous service is in progress, refuse this request.
 3269    4282   2 !
 3270    4283   2 IF .SMQ[SMQ$V_PAUSING]
 3271    4284   2 OR .SMQ[SMQ$V_RESETTING]
 3272    4285   2 OR .SMQ[SMQ$V_RESUMING]
 3273    4286   2 OR .SMQ[SMQ$V_STARTING]
 3274    4287   2 OR .SMQ[SMQ$V_STOPPING]
 3275    4288   2 THEN
 3276    4289   2     RETURN JBC$_INCOMPLETE;
```

```
 3277    4290    2
 3278    4291    2
 3279    4292    2    IF .SMQ[SMQSV_PAUSED] AND .SMQ[SMQSB_CURRENT_JOB_COUNT] NEQ 0
 3280    4293    2    THEN
 3281    4294    3        BEGIN
 3282    4295    3        LOCAL
 3283    4296    3            FLAGS:              BBLOCK[4];        ! Resume control flags
 3284    4297    3
 3285    4298    3
 3286    4299    3        IF NOT .SMQ[SMQSV_BATCH]
 3287    4300    3        THEN
 3288    4301    3            IF .ITEM_PRESENT[SJC$_NEXT_JOB]
 3289    4302    3            THEN
 3290    4303    4                BEGIN
 3291    4304    4                SMQ[SMQSV_PAUSED] = FALSE;
 3292    4305    4                RETURN SJC_ABORT_JOB(.SQX_N, .SQE, .SMQ_N, .SMQ);
 3293    4306    3                END;
 3294    4307    3
 3295    4308    3
 3296    4309    3        ! Compute the resume control flags.
 3297    4310    3        !
 3298    4311    3        FLAGS = 0;
 3299    4312    3        IF .ITEM_PRESENT[SJC$_ALIGNMENT_MASK]
 3300    4313    3            THEN FLAGS[ISRV_V_ALIGNMENT_MASK] = TRUE;
 3301    4314    3        IF .ITEM_PRESENT[SJC$_TOP_OF_FILE]
 3302    4315    3            THEN FLAGS[ISRV_V_TOP_OF_FILE] = TRUE;
 3303    4316    3
 3304    4317    3
 3305    4318    3        ! If this is a remote queue, enter a remote request.  Otherwise, issue
 3306    4319    3        ! the resume.
 3307    4320    3        !
 3308    4321    4        IF SYSID_NEQ(THIS_SYSID, SMQ[SMQST_SYSID])
 3309    4322    3        THEN
 3310    4323    3            STATUS_1 = CREATE_SRQ_RECORD(
 3311    4324    3                SRQSK_RESUME_QUEUE,
 3312    4325    3                .SMQ_N, .SMQ,
 3313    4326    3                .FLAGS, .VALUE_ALIGNMENT_PAGES, .VALUE_RELATIVE_PAGE,
 3314    4327    3                .VALUE_SEARCH_STRING[SDSC_W_LENGTH],
 3315    4328    3                .VALUE_SEARCH_STRING[SDSC_A_POINTER])
 3316    4329    3        ELSE
 3317    4330    3            STATUS_1 = RESUME_EXECUTION(
 3318    4331    3                .SMQ_N, .SMQ,
 3319    4332    3                .FLAGS, .VALUE_ALIGNMENT_PAGES, .VALUE_RELATIVE_PAGE,
 3320    4333    3                .VALUE_SEARCH_STRING[SDSC_W_LENGTH],
 3321    4334    3                .VALUE_SEARCH_STRING[SDSC_A_POINTER]);
 3322    4335    3
 3323    4336    3
 3324    4337    3        REWRITE_RECORD(.SMQ_N);
 3325    4338    3        RETURN .STATUS_1;
 3326    4339    2        END;
 3327    4340    2
 3328    4341    2
 3329    4342    2    IF .SMQ[SMQSV_STOPPED] OR .SMQ[SMQSV_PAUSED]
 3330    4343    2    THEN
 3331    4344    3        BEGIN
 3332    4345    3        IF NOT .ITEM_PRESENT[SJC$_CREATE_START]
 3333    4346    3        THEN
```

```
: 3334     4347  4          BEGIN
: 3335     4348  4          STATUS_2 = APPLY_SMQ_OPTIONS(.SMQ);
: 3336     4349  4          IF NOT .STATUS_2 THEN RETURN .STATUS_2;
: 3337     4350  4          UPDATE_SQX_ENTRY(.SQE, .SMQ_N, .SMQ);
: 3338     4351  3          END;
: 3339     4352  3
: 3340     4353  3
: 3341     4354  3      ! If the queue has never been started and no SYSID has been specified,
: 3342     4355  3      ! default it to the current SYSID.
: 3343     4356  3      !
: 3344     4357  3      IF CH$RCHAR(SMQ[SMQ$T_SYSID]) EQL 0
: 3345     4358  3      THEN
: 3346     4359  3          COPY_SYSID(THIS_SYSID, SMQ[SMQ$T_SYSID]);
: 3347     4360  3
: 3348     4361  3
: 3349     4362  3      IF .SMQ[SMQ$L_ASSIGNED_QUEUE_LINK] NEQ 0
: 3350     4363  3      OR .SMQ[SMQ$V_GENERIC_QUEUE]
: 3351     4364  3      OR .SMQ[SMQ$V_BATCH]
: 3352     4365  3      OR .SMQ[SMQ$L_STREAM_SCT] NEQ 0
: 3353     4366  3      THEN
: 3354     4367  4          BEGIN
: 3355     4368  4          SMQ[SMQ$V_STOPPED] = SMQ[SMQ$V_PAUSED] = FALSE;
: 3356     4369  4          FIND_PENDING_JOBS(.SMQ_N, .SMQ);
: 3357     4370  4          REWRITE_RECORD(.SQX_N);
: 3358     4371  4          REWRITE_RECORD(.SMQ_N);
: 3359     4372  4          RETURN SS$_NORMAL;
: 3360     4373  3          END;
: 3361     4374  3
: 3362     4375  3
: 3363     4376  3      SMQ[SMQ$V_LOWERCASE] = FALSE;
: 3364     4377  3      SMQ[SMQ$V_REMOTE] = FALSE;
: 3365     4378  3      SMQ[SMQ$V_SERVER] = FALSE;
: 3366     4379  3      SMQ[SMQ$V_STALLED] = FALSE;
: 3367     4380  3      SMQ[SMQ$V_TERMINAL] = FALSE;
: 3368     4381  3      SMQ[SMQ$V_UNAVAILABLE] = FALSE;
: 3369     4382  4      IF SYSID_NEQ(THIS_SYSID, SMQ[SMQ$T_SYSID])
: 3370     4383  3      THEN
: 3371     4384  3          STATUS_3 = CREATE_SRQ_RECORD(SRQ$K_START_QUEUE, .SMQ_N, .SMQ)
: 3372     4385  3      ELSE
: 3373     4386  4          BEGIN
: 3374     4387  4          STATUS_3 = CREATE_SRQ_RECORD(SRQ$K_START_SYMBIONT, .SMQ_N, .SMQ);
: 3375     4388  4          IF .STATUS_3 EQL 0
: 3376     4389  4          THEN
: 3377     4390  5              BEGIN
: 3378     4391  5              STATUS_4 = START_SYMBIONT_STREAM(.SMQ_N, .SMQ);
: 3379     4392  5              IF NOT .STATUS_4
: 3380     4393  5              THEN
: 3381     4394  5                  SCAN_INCOMPLETE_SERVICES(
: 3382     4395  5                      ISRV_K_SYMBIONT,
: 3383     4396  5                      .SMQ_N, .SMQ,
: 3384     4397  5                      SRQ$K_START_SYMBIONT,
: 3385     4398  5                      .STATUS_4);
: 3386     4399  4              END;
: 3387     4400  3          END;
: 3388     4401  3      REWRITE_RECORD(.SQX_N);
: 3389     4402  3      REWRITE_RECORD(.SMQ_N);
: 3390     4403  3      RETURN .STATUS_3;
```

```
: 3391       4404  2      END;
: 3392       4405  2
: 3393       4406  2
: 3394       4407  2  REWRITE_RECORD(.SQX_N);
: 3395       4408  2  REWRITE_RECORD(.SMQ_N);
: 3396       4409  2
: 3397       4410  2
: 3398       4411  2  IF NOT .ITEM_PRESENT[SJC$_CREATE_START] THEN RETURN JBC$_STARTED;
: 3399       4412  2  S$$_NORMAL
: 3400       4413  1  END;
```

```
                                      00FC 00000  SJC_START_QUEUE:
                                                    .WORD     Save R2,R3,R4,R5,R6,R7                           4233
                    57 00000000G EF   9E 00002      MOVAB     CREATE_SRQ_RECORD, R7
                    56 00000000G EF   9E 00009      MOVAB     REWRITE_RECORD, R6
                    55 00000000' EF   9E 00010      MOVAB     ITEM_PRESENT, R5
                    52          10    AC D0 00017    MOVL      SMQ, R2                                          4276
                    52                52 DD 0001B    PUSHL     R2
          00000000G EF                01 FB 0001D    CALLS     #1, CHECK_E_ACCESS
          08                          50 E8 00024    BLBS      R0, 1$
          50 00048020 8F             D0 00027       MOVL      #294944, R0                                      4278
                                      04 0002E       RET
                    53          10    A2 9E 0002F 1$: MOVAB    16(R2), R3                                       4283
          10        63                03 E0 00033    BBS       #3, (R3), 2$
          0C        63                05 E0 00037    BBS       #5, (R3), 2$                                     4284
          08        63                06 E0 0003B    BBS       #6, (R3), 2$                                     4285
                    04          01    A3 E8 0003F    BLBS      1(R3), 2$                                        4286
          08        63                0A E1 00043    BBC       #10, (R3), 3$                                    4287
          50 00048138 8F             D0 00047 2$:    MOVL      #295224, R0                                      4289
                                      04 0004E       RET
          03        63                02 E0 0004F 3$: BBS      #2, (R3), 5$                                     4292
                              008B    31 00053 4$:   BRW       12$
                              0115    C2 95 00056 5$: TSTB     277(R2)
                              F7      13 0005A       BEQL      4$
          17                  0C      A2 E8 0005C    BLBS      12(R2), 6$                                       4299
          12        0D        A5      01 E1 00060    BBC       #1, ITEM_PRESENT+13, 6$                          4301
                    63                04 8A 00065    BICB2     #4, (R3)                                         4304
                    52                DD 00068       PUSHL     R2                                               4305
                    7E        08      AC 7D 0006A    MOVQ      SQE, -(SP)
                              04      AC DD 0006E    PUSHL     SQX_N
          E9A5      CF                04 FB 00071    CALLS     #4, SJC_ABORT_JOB
                                      04 00076       RET
                              50      D4 00077 6$:   CLRL      FLAGS                                            4311
          03                  65      05 E1 00079    BBC       #5, ITEM_PRESENT, 7$                             4312
                              50      01 88 0007D    BISB2     #1, FLAGS                                        4313
          03        12        A5      05 E1 00080 7$: BBC      #5, ITEM_PRESENT+18, 8$                          4314
                              50      02 88 00085    BISB2     #2, FLAGS                                        4315
                    0106      C2      F408 C5 D1 00088 8$: CMPL   THIS_SYSID, 262(R2)                           4321
                              09      12 0008F       BNEQ      9$
                    010A      C2      F40C C5 B1 00091  CMPW    THIS_SYSID+4, 266(R2)
                              1F      13 00098       BEQL      10$
                    0590      C5      DD 0009A 9$:    PUSHL     VALUE_SEARCH_STRING+2                           4328
                    7E        058E   C5 3C 0009E     MOVZWL    VALUE_SEARCH_STRING, -(SP)                      4327
```

```
                                 0569  C5  DD 000A3          PUSHL   VALUE_RELATIVE_PAGE                        : 4326
                           7E     32  A5  9A C00A7           MOVZBL  VALUE_ALIGNMENT_PAGES, -(SP)
                                  50  DD 000AB               PUSHL   FLAGS
                                  52  DD 000AD               PUSHL   R2                                         : 4325
                           0C     AC  DD 000AF               PUSHL   SMQ_N
                                  07  DD 000B2               PUSHL   #7                                         : 4323
                           67     08  FB 0C0B4               CALLS   #8, CREATE_SRQ_RECORD
                                  1F  11 000B7               BRB     11$
                                 0590  C5  DD 000B9  10$:     PUSHL   VALUE_SEARCH_STRING+2                      : 4334
                           7E    058E  C5  3C 000BD           MOVZWL  VALUE_SEARCH_STRING, -(SP)                : 4333
                                 0569  C5  DD 000C2           PUSHL   VALUE_RELATIVE_PAGE                        : 4332
                           7E     32  A5  9A 000C6           MOVZBL  VALUE_ALIGNMENT_PAGES, -(SP)
                                  50  DD 000CA               PUSHL   FLAGS
                                  52  DD 000CC               PUSHL   R2                                         : 4331
                           0C     AC  DD 000CE               PUSHL   SMQ_N
        00000000G  EF             07  FB 000D1               CALLS   #7, RESUME_EXECUTION
                           54     50  D0 000D8               MOVL    R0, STATUS_1
                           0C     AC  DD 000DB  11$:          PUSHL   SMQ_N                                      : 4337
                                 00E2  31 000DE               BRW     22$
   07                      63     09  E0 000E1  12$:          BBS     #9, (R3), 13$                              : 4342
   03                      63     02  E0 000E5               BBS     #2, (R3), 13$
                                 00DE  31 000E9               BRW     23$
                           02     A5  95 000EC  13$:          TSTB    ITEM_PRESENT+2                             : 4345
                                  1A  19 000EF               BLSS    15$
                                  52  DD 000F1               PUSHL   R2                                         : 4348
        00000000G  EF             01  FB 000F3               CALLS   #1, APPLY_SMQ_OPTIONS
                                  01     50  E8 000FA         BLBS    STATUS_2, 14$                              : 4349
                                  04  000FD               RET
                                  52  DD 000FE  14$:          PUSHL   R2                                         : 4350
                           7E     08  AC  7D 00100           MOVQ    SQE, -(SP)
        00000000G  EF             03  FB 00104               CALLS   #3, UPDATE_SQX_ENTRY
                           54    0106  C2  9E 0010B  15$:      MOVAB   262(R2), R4                                : 4357
                                  64  95 00110               TSTB    (R4)
                                  0C  12 00112               BNEQ    16$
                           64    F408  C5  D0 00114           MOVL    THIS_SYSID, (R4)                           : 4359
                           010A  C2   F40C  C5  B0 00119      MOVW    THIS_SYSID+4, 266(R2)
                                  2C  A2  D5 00120  16$:      TSTL    44(R2)                                     : 4362
                                  0F  12 00123               BNEQ    17$
   0A        0D     A2             02  E0 00125               BBS     #2, 13(R2), 17$                            : 4363
                           06     A2  E8 0012A               BLBS    12(R2), 17$                                : 4364
                           00FC  C2  D5 0012E               TSTL    252(R2)                                     : 4365
                                  20  13 00132               BEQL    18$
                           63    0204  8F  AA 00134  17$:      BICW2   #516, (R3)                                : 4368
                                  52  DD 00139               PUSHL   R2                                         : 4369
                           0C     AC  DD 0013B               PUSHL   SMQ_N
        00000000G  EF             02  FB 0013E               CALLS   #2, FIND_PENDING_JOBS
                           04     AC  DD 00145               PUSHL   SQX_N                                      : 4370
                           66     01  FB 00148               CALLS   #1, REWRITE_RECORD
                           0C     AC  DD 0014B               PUSHL   SMQ_N                                      : 4371
                           66     01  FB 0014E               CALLS   #1, REWRITE_RECORD
                                 008F  31 00151               BRW     24$                                       : 4372
                     0E    A2     01  8A 00154  18$:          BICB2   #1, 14(R2)                                 : 4376
                           63     10  8A 00158               BICB2   #16, (R3)                                  : 4377
                     0E    A2     10  8A 0015B               BICB2   #16, 14(R2)                                 : 4378
                           63     80  8F  8A 0015F           BICB2   #128, (R3)                                 : 4379
                     0E    A2     40  8F  8A 00163           BICB2   #64, 14(R2)                                 : 4380
                     01    A3     08  8A 00168               BICB2   #8, 1(R3)                                  : 4381
```

```
                         53        OC  AC  DO 0016C              MOVL      SMQ_N, R3                                    ; 4384
                         64        F408 C5 D1 00170              CMPL      THIS_SYSID, (R4)                             ; 4382
                                   09   12 00175                BNEQ      19$
             010A  C2    F40C C5   B1 00177                      CMPW      THIS_SYSID+4, 266(R2)
                                   0E   13 0017E                BEQL      20$
                                   52   DD 00180 19$:           PUSHL     R2                                           ; 4384
                                   53   DD 00182                PUSHL     R3
                                   04   DD 00184                PUSHL     #4
                         67        03   FB 00186                CALLS     #3, CREATE_SRQ_RECORD
                         54        50   DO 00189                MOVL      R0, STATUS_3
                                   2D   11 0018C                BRB       21$
                                   52   DD 0018E 20$:           PUSHL     R2                                           ; 4387
                                   53   DD 00190                PUSHL     R3
                                   0C   DD 00192                PUSHL     #12
                         67        03   FB 00194                CALLS     #3, CREATE_SRQ_RECORD
                         54        50   DO 00197                MOVL      R0, STATUS_3
                                   1F   12 0019A                BNEQ      21$                                          ; 4388
                                   52   DD 0019C                PUSHL     R2                                           ; 4391
                                   53   DD 0019E                PUSHL     R3
        00000000G  EF             02   FB 001A0                CALLS     #2, START_SYMBIONT_STREAM
                         11        50   E8 001A7                BLBS      STATUS_4, 21$                                ; 4392
                                   50   DD 001AA                PUSHL     STATUS_4                                     ; 4398
                                   0C   DD 001AC                PUSHL     #12                                          ; 4394
                                   52   DD 001AE                PUSHL     R2                                           ; 4396
                                   53   DD 001B0                PUSHL     R3
                                   02   DC 001B2                PUSHL     #2                                           ; 4394
        00000000G  EF             05   FB 001B4                CALLS     #5, SCAN_INCOMPLETE_SERVICES
                         04        AC  DD 001BB 21$:           PUSHL     SQX_N                                        ; 4401
                         66        01   FB 001BE                CALLS     #1, REWRITE_RECORD
                                   53   DD 001C1                PUSHL     R3
                         66        01   FB 001C3 22$:           CALLS     #1, REWRITE_RECORD                           ; 4402
                         50        54   DO 001C6                MOVL      STATUS_3, R0                                 ; 4403
                                   04   001C9                  RET
                         04        AC  DD 001CA 23$:           PUSHL     SQX_N                                        ; 4407
                         66        01   FB 001CD                CALLS     #1, REWRITE_RECORD
                         0C        AC  DD 001D0                PUSHL     SMQ_N                                        ; 4408
                         66        01   FB 001D3                CALLS     #1, REWRITE_RECORD
                                   02   A5 95 001D6             TSTB      ITEM_PRESENT+2                               ; 4411
                                   08   19 001D9                BLSS      24$
                      50 00048058  8F   DO 001DB                MOVL      #295000, R0
                                   04   001E2                  RET
                         50        01   DO 001E3 24$:           MOVL      #1, R0                                       ; 4413
                                   04   001E6                  RET
```

; Routine Size: 487 bytes,   Routine Base: CODE + 15E5

```
: 3402      4414   1 ROUTINE SJC_START_QUEUE_MANAGER=
: 3403      4415   1
: 3404      4416   1 !++
: 3405      4417   1 !
: 3406      4418   1 ! FUNCTIONAL DESCRIPTION:
: 3407      4419   1 !     This routine processes the SJC$_START_QUEUE_MANAGER request.
: 3408      4420   1 !
: 3409      4421   1 ! INPUT PARAMETERS:
: 3410      4422   1 !     NONE
: 3411      4423   1 !
: 3412      4424   1 ! IMPLICIT INPUTS:
: 3413      4425   1 !     MBX              - Pointer to buffered mailbox message.
: 3414      4426   1 !
: 3415      4427   1 ! OUTPUT PARAMETERS:
: 3416      4428   1 !     NONE
: 3417      4429   1 !
: 3418      4430   1 ! IMPLICIT OUTPUTS:
: 3419      4431   1 !     NONE
: 3420      4432   1 !
: 3421      4433   1 ! ROUTINE VALUE:
: 3422      4434   1 !     Completion status to be returned to requestor.
: 3423      4435   1 !
: 3424      4436   1 ! SIDE EFFECTS:
: 3425      4437   1 !     NONE
: 3426      4438   1 !
: 3427      4439   1 !--
: 3428      4440   1
: 3429      4441   2 BEGIN
: 3430      4442   2 LOCAL
: 3431      4443   2         INIT_LKSB:       VECTOR[4,WORD], ! Initialization lock status block
: 3432      4444   2         STATUS_1,                        ! Status return
: 3433      4445   2         STATUS_2;                        ! Status return
: 3434      4446   2
: 3435      4447   2
: 3436      4448   2 ! Ensure that the requestor has OPER privilege.
: 3437      4449   2 !
: 3438      4450   2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
: 3439      4451   2 THEN
: 3440      4452   2     RETURN JBC$_NOOPER;
: 3441      4453   2
: 3442      4454   2
: 3443      4455   2 ! Ensure that the requestor has SYSNAM privilege.
: 3444      4456   2 !
: 3445      4457   2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_SYSNAM]
: 3446      4458   2 THEN
: 3447      4459   2     RETURN JBC$_NOSYSNAM;
: 3448      4460   2
: 3449      4461   2
: 3450      4462   2 ! Ensure that the queue file is not already open.
: 3451      4463   2 !
: 3452      4464   2 IF .QUEUE_FAB[FAB$W_IFI] NEQ 0
: 3453      4465   2 THEN
: 3454      4466   2     RETURN JBC$_JOBQUEENA;
: 3455      4467   2
: 3456      4468   2 CH$FILL(0, DIAG_STORAGE_END - DIAG_STORAGE_BASE, DIAG_STORAGE_BASE);
: 3457      4469   2
: 3458      4470   2
```

H 3

```
: 3459          4471  2 ! Take out the job controller initialization lock, which interlocks the
: 3460          4472  2 ! queue file open and reconstruction processing.
: 3461          4473  2 !
: 3462        P 4474  2 STATUS_1 = $ENQW(
: 3463        P 4475  2     EFN=JBC$K_SYNC_EFN,
: 3464        P 4476  2     LKMODE=LCK$K_EXMODE,
: 3465        P 4477  2     LKSB=INIT_LKSB,
: 3466          4478  2     RESNAM=$DESCRIPTOR('JBC$INITIALIZE'));
: 3467          4479  2 IF .STATUS_1 THEN STATUS_1 = .INIT_LKSB[0];
: 3468          4480  2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
: 3469          4481  2
: 3470          4482  2
: 3471          4483  2 ! Get the system ID.
: 3472          4484  2 !
: 3473          4485  2 COPY_SYSID(SCS$GB_NODENAME, THIS_SYSID);
: 3474          4486  2
: 3475          4487  2
: 3476          4488  2 ! Do the actual initialization.
: 3477          4489  2 !
: 3478          4490  2 STATUS_2 = INITIALIZE_QUEUE_FILE();
: 3479          4491  2
: 3480          4492  2
: 3481          4493  2 ! Release the initialization lock.
: 3482          4494  2 !
: 3483          4495  2 $DEQ(LKID=.(INIT_LKSB[2]));
: 3484          4496  2
: 3485          4497  2
: 3486          4498  2 ! Return status.
: 3487          4499  2 !
: 3488          4500  2 .STATUS_2
: 3489          4501  1 END;
```

```
  45 5A 49 4C 41 49 54 49 4E 49 24 43 42 4A  017CC P.AAB:  .ASCII   \JBC$INITIALIZE\                                    :
                                             017DA         .BLKB    2                                                   :
                              0000000E       017DC P.AAA:  .LONG    14                                                  :
                              00000000'      017E0         .ADDRESS P.AAB                                               :

                                                           .EXTRN   SYS$ENQW, SYS$DEQ

                                     007C 00000 SJC_START_QUEUE_MANAGER:
                                                           .WORD    Save R2,R3,R4,R5,R6                                 : 4414
                         56 00000000'  EF 9E 00002         MOVAB    MBX, R6
                                       5E 08 C2 00009      SUBL2    #8, SP
                                       50 66 D0 0000C      MOVL     MBX, R0                                             : 4450
                     08 06 A0          02 E0 0000F         BBS      #2, 6(R0), 1$
                         50 00042894   8F D0 00014         MOVL     #272532, R0                                        : 4452
                                       04 0001B            RET
                     08 04 A0          02 E0 0001C 1$:     BBS      #2, 4(R0), 2$                                       : 4457
                         50 00042814   8F D0 00021         MOVL     #272404, R0                                        : 4459
                                       04 00028            RET
                              00D6     C6 B5 00029 2$:     TSTW     QUEUE_FAB+2                                         : 4464
                                       08 13 0002D         BEQL     3$
                         50 00048128   8F D0 0002F         MOVL     #295208, R0                                        : 4466
                                       04 00036            RET
  0200 8F        00             6E     00 2C 00037 3$:     MOVC5    #0, (SP), #0, #512, DIAG_STORAGE_BASE              : 4468
```

```
                                 FDC0    C6        0003E                         CLRQ     -(SP)
                                         7E  7C    00041                         CLRQ     -(SP)                                              ; 4478
                                         7E  7C    00043                         CLRQ     -(SP)
                                         7E  7C    00045                         CLRQ     -(SP)
                                 AE      AF  9F    00047                         PUSHAB   P.AAA
                                         7E  D4    0004A                         CLRL     -(SP)
                                 20      AE  9F    0004C                         PUSHAB   INIT_LKSB
                                         05  DD    0004F                         PUSHL    #5
                                         01  DD    00051                         PUSHL    #1
            00000000G   00              0B  FB    00053                         CALLS    #11, SYS$ENQW
                        31              50  E9    0005A                         BLBC     STATUS_1, 4$                                       ; 4479
                        50              6E  3C    0005D                         MOVZWL   INIT_LKSB, STATUS_1
                        2B              50  E9    00060                         BLBC     STATUS_1, 4$                                       ; 4480
            C8      A6  00000000G       00  D0    00063                         MOVL     SCS$GB_NODENAME, THIS_SYSID                        ; 4485
            CC      A6  00000000G       00  B0    0006B                         MOVW     SCS$GB_NODENAME+4, THIS_SYSID+4
            00000000G   EF              00  FB    00073                         CALLS    #0, INITIALIZE_QUEUE_FILE                          ; 4490
                        52              50  D0    0007A                         MOVL     R0, STATUS_2
                                         7E  7C    0007D                         CLRQ     -(SP)                                              ; 4495
                                         7E  D4    0007F                         CLRL     -(SP)
                                 10      AE  DD    00081                         PUSHL    INIT_LKSB+4
            00000000G   00              04  FB    00084                         CALLS    #4, SYS$DEQ
                        50              52  D0    0008B                         MOVL     STATUS_2, R0                                       ; 4501
                                         04        0008E    4$:                  RET
```

; Routine Size: 143 bytes,   Routine Base: CODE + 17E4

```
3491    4502  1 ROUTINE CLEAR_ACCOUNTING_FLAGS=
3492    4503  1
3493    4504  1 !++
3494    4505  1 !
3495    4506  1 ! FUNCTIONAL DESCRIPTION:
3496    4507  1 !     This routine clears bits in the accounting control flag longword.  It
3497    4508  1 !     executes in kernel mode.
3498    4509  1 !
3499    4510  1 ! INPUT PARAMETERS:
3500    4511  1 !     AP contains a mask of bits to be cleared in the accounting flags.
3501    4512  1 !
3502    4513  1 ! IMPLICIT INPUTS:
3503    4514  1 !     NONE
3504    4515  1 !
3505    4516  1 ! OUTPUT PARAMETERS:
3506    4517  1 !     NONE
3507    4518  1 !
3508    4519  1 ! IMPLICIT OUTPUTS:
3509    4520  1 !     EXE$GL_ACMFLAGS updated.
3510    4521  1 !
3511    4522  1 ! ROUTINE VALUE:
3512    4523  1 !     SS$_NORMAL
3513    4524  1 !
3514    4525  1 ! SIDE EFFECTS:
3515    4526  1 !     NONE
3516    4527  1 !
3517    4528  1 !--
3518    4529  1
3519    4530  2 BEGIN
3520    4531  2 BUILTIN
3521    4532  2     AP;
3522    4533  2
3523    4534  2
3524    4535  2 ! Clear the requested bits in EXE$GL_ACMFLAGS.
3525    4536  2 !
3526    4537  2 EXE$GL_ACMFLAGS = .EXE$GL_ACMFLAGS AND NOT .AP;
3527    4538  2 SS$_NORMAL
3528    4539  1 END;
```

```
                                    0000 00000 CLEAR_ACCOUNTING_FLAGS:
                                               .WORD   Save nothing                      4502
                   00000000G  00        5C  CA 00002   BICL2   AP, EXE$GL_ACMFLAGS        4537
                              50         01  D0 00009   MOVL    #1, R0                    4539
                                         04  0000C      RET
```

; Routine Size: 13 bytes,   Routine Base: CODE + 1873

```
3530    4540  1  ROUTINE SJC_STOP_ACCOUNTING=
3531    4541  1
3532    4542  1  !++
3533    4543  1  !
3534    4544  1  !  FUNCTIONAL DESCRIPTION:
3535    4545  1  !       This routine processes the SJC$_STOP_ACCOUNTING (ACC$K_DISAACC and
3536    4546  1  !       ACC$K_DISASEL) request.
3537    4547  1  !
3538    4548  1  !  INPUT PARAMETERS:
3539    4549  1  !       NONE
3540    4550  1  !
3541    4551  1  !  IMPLICIT INPUTS:
3542    4552  1  !       MBX             - Pointer to buffered mailbox message.
3543    4553  1  !
3544    4554  1  !  OUTPUT PARAMETERS:
3545    4555  1  !       NONE
3546    4556  1  !
3547    4557  1  !  IMPLICIT OUTPUTS:
3548    4558  1  !       NONE
3549    4559  1  !
3550    4560  1  !  ROUTINE VALUE:
3551    4561  1  !       Completion status to be returned to requestor.
3552    4562  1  !
3553    4563  1  !  SIDE EFFECTS:
3554    4564  1  !       NONE
3555    4565  1  !
3556    4566  1  !--
3557    4567  1
3558    4568  2  BEGIN
3559    4569  2
3560    4570  2  ! Ensure that the requestor has OPER privilege.
3561    4571  2  !
3562    4572  2  IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
3563    4573  2  THEN
3564    4574  2      RETURN JBC$_NOOPER;
3565    4575  2
3566    4576  2
3567    4577  2  IF .ITEM_PRESENT[SJC$_ACCOUNTING_TYPES]
3568    4578  2  THEN
3569    4579  3      $CMKRNL(ROUTIN=CLEAR_ACCOUNTING_FLAGS, ARGLST=.VALUE_ACCOUNTING_TYPES)
3570    4580  2  ELSE
3571    4581  2      CLOSE_ACCOUNTING_FILE();
3572    4582  2
3573    4583  2
3574    4584  2  SS$_NORMAL
3575    4585  1  END;
```

```
                              0004 00000 SJC_STOP_ACCOUNTING:
                                                        .WORD    Save R2                        : 4540
                     52 00000000'  EF  9E 00002         MOVAB    MBX, R2
                     50            62  D0 00009         MOVL     MBX, R0                         : 4572
          08     06  A0            02  E0 0000C         BBS      #2, 6(R0), 1$
                     50 00042894   8F  D0 00011         MOVL     #272532, R0                     : 4574
```

SNDJBC
V04-000
$SNDACC, $SNDSMB, and $SNDJBC services

L 3
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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```
                                        04 00018           RET
           10     0BC0   C2          02 E1 00019 1$:       BBC      #2, ITEM_PRESENT, 2$             4577
                               0BE6  C2 DD 0001F           PUSHL    VALUE_ACCOUNTING_TYPES          4579
                                  CD AF 9F 00023           PUSHAB   CLEAR_ACCOUNTING_FLAGS
           00000000G   00         02 FB 00026              CALLS    #2, SYS$CMKRNL
                                     07 11 0002D           BRB      3$
           00000000G   EF          00 FB 0002F 2$:         CALLS    #0, CLOSE_ACCOUNTING_FILE       4581
                       50          01 D0 00036 3$:         MOVL     #1, R0                          4585
                                        04 00039           RET
```

; Routine Size: 58 bytes,   Routine Base: CODE + 1880

```
 3577      4586  1 ROUTINE SJC_STOP_QUEUE(SQX_N,SQE,SMQ_N,SMQ)=
 3578      4587  1
 3579      4588  1 !++
 3580      4589  1 !
 3581      4590  1 ! FUNCTIONAL DESCRIPTION:
 3582      4591  1 !     This routine processes the SJC$_STOP_QUEUE (SMR$K_STOP) request.
 3583      4592  1 !
 3584      4593  1 ! INPUT PARAMETERS:
 3585      4594  1 !     SQX_N           - Record number of SQX.
 3586      4595  1 !     SQE             - Pointer to SQX entry.
 3587      4596  1 !     SMQ_N           - Record number of SMQ.
 3588      4597  1 !     SMQ             - Pointer to SMQ.
 3589      4598  1 !
 3590      4599  1 ! IMPLICIT INPUTS:
 3591      4600  1 !     MBX             - Pointer to buffered mailbox message.
 3592      4601  1 !
 3593      4602  1 ! OUTPUT PARAMETERS:
 3594      4603  1 !     NONE
 3595      4604  1 !
 3596      4605  1 ! IMPLICIT OUTPUTS:
 3597      4606  1 !     NONE
 3598      4607  1 !
 3599      4608  1 ! ROUTINE VALUE:
 3600      4609  1 !     Completion status to be returned to requestor.
 3601      4610  1 !
 3602      4611  1 ! SIDE EFFECTS:
 3603      4612  1 !     NONE
 3604      4613  1 !
 3605      4614  1 !--
 3606      4615  1
 3607      4616  2 BEGIN
 3608      4617  2 MAP
 3609      4618  2     SQE:            REF BBLOCK,     ! Pointer to SQX entry
 3610      4619  2     SMQ:            REF BBLOCK;     ! Pointer to SMQ
 3611      4620  2 LOCAL
 3612      4621  2     STATUS;                         ! Status return
 3613      4622  2
 3614      4623  2
 3615      4624  2 ! Ensure that the requestor has E access to the queue.
 3616      4625  2 !
 3617      4626  2 IF NOT CHECK_E_ACCESS(.SMQ)
 3618      4627  2 THEN
 3619      4628  2     RETURN JBC$_NOPRIV;
 3620      4629  2
 3621      4630  2
 3622      4631  2 ! If a previous service is in progress, refuse this request.
 3623      4632  2 !
 3624      4633  2 IF .SMQ[SMQ$V_PAUSING]
 3625      4634  2 OR .SMQ[SMQ$V_RESETTING]
 3626      4635  2 OR .SMQ[SMQ$V_RESUMING]
 3627      4636  2 OR .SMQ[SMQ$V_STARTING]
 3628      4637  2 OR .SMQ[SMQ$V_STOPPING]
 3629      4638  2 THEN
 3630      4639  2     RETURN JBC$_INCOMPLETE;
 3631      4640  2
 3632      4641  2
 3633      4642  2 ! If the queue is not already stopped, mark it stopped.
```

```
; 3634          4643  2 !
; 3635          4644  2 IF TESTBITCS(SMQ[SMQ$V_STOPPED])
; 3636          4645  2 THEN
; 3637          4646  3     BEGIN
; 3638          4647  3
; 3639          4648  3         ! If there are starting jobs in the queue, remove these.
; 3640          4649  3         !
; 3641          4650  3         REQUEUE_STARTING_JOBS(.SMQ_N, .SMQ);
; 3642          4651  3
; 3643          4652  3
; 3644          4653  3         ! If there is a symbiont, and there are no executing jobs, stop it.
; 3645          4654  3         !
; 3646          4655  3         IF .SMQ[SMQ$L_STREAM_SCT] NEQ C
; 3647          4656  3         AND .SMQ[SMQ$B_CURRENT_JOB_COUNT] EQL 0
; 3648          4657  3         THEN
; 3649          4658  4             BEGIN
; 3650          4659  4
; 3651          4660  4                 ! If this is a remote queue, enter a remote request.  Otherwise, issue
; 3652          4661  4                 ! the stop.
; 3653          4662  4                 !
; 3654          4663  4                 SMQ[SMQ$V_STOPPED] = FALSE;
; 3655          4664  5                 IF SYSID_NEQ(THIS_SYSID, SMQ[SMQ$T_SYSID])
; 3656          4665  4                 THEN
; 3657          4666  5                     BEGIN
; 3658          4667  5                     STATUS = CREATE_SRQ_RECORD(SRQ$K_STOP_QUEUE, .SMQ_N, .SMQ);
; 3659          4668  5                     IF .STATUS NEQ 0 THEN FIND_PENDING_JOBS(.SMQ_N, .SMQ);
; 3660          4669  5                     REWRITE_RECORD(.SMQ_N);
; 3661          4670  5                     RETURN .STATUS;
; 3662          4671  5                     END
; 3663          4672  4                 ELSE
; 3664          4673  4                     STOP_SYMBIONT_STREAM(.SMQ_N, .SMQ);
; 3665          4674  3                 END;
; 3666          4675  2         END;
; 3667          4676  2
; 3668          4677  2
; 3669          4678  2 REWRITE_RECORD(.SMQ_N);
; 3670          4679  2 SS$_NORMAL
; 3671          4680  1 END;
```

```
                        003C 00000 SJC_STOP_QUEUE:
                                                    .WORD     Save R2,R3,R4,R5
            55 00000000G EF  9E 00002              MOVAB     REWRITE_RECORD, R5
            52          10  AC  D0 00009              MOVL      SMQ, R2
                        52  DD 0000D              PUSHL     R2
   00000000G EF          01  FB 0000F              CALLS     #1, CHECK_E_ACCESS
            08          50  E8 00016              BLBS      R0, 1$
            50 00048020  8F  D0 00019              MOVL      #294944, R0
                        04 00020              RET
            53          10  A2  9E 00021 1$:          MOVAB     16(R2), R3
            63          03  E0 00025              BBS       #3, (R3), 2$
        0C  63          05  E0 00029              BBS       #5, (R3), 2$
        08  63          06  E0 0002D              BBS       #6, (R3), 2$
            04          01  A3  E8 00031              BLBS      1(R3), 2$
```

: 4586
: 4626
: 4628
: 4633
: 4634
: 4635
: 4636

```
            08              63              0A  E1 00035            BBC     #10, (R3), 3$                          4637
                            50 00048138     8F  D0 00039 2$:       MOVL    #295224, R0                            4639
                                            04 00040               RET
            66              63              09  E2 00041 3$:       BBSS    #9, (R3), 7$                           4644
                            52              DD 00045               PUSHL   R2                                     4650
                            54        0C    AC  D0 00047           MOVL    SMQ_N, R4
                            54              DD 0004B               PUSHL   R4
            00000000G  EF                   02  FB 0004D           CALLS   #2, REQUEUE_STARTING_JOBS
                                      00FC   C2  D5 00054           TSTL    252(R2)                                4655
                            51              13 00058               BEQL    7$
                                      0115   C2  95 0005A           TSTB    277(R2)                                4656
                            4B              12 0005E               BNEQ    7$
            01         A3                   02  8A 00060           BICB2   #2, 1(R3)                              4663
            0106       C2 00000000'         EF  D1 00064           CMPL    THIS_SYSID, 262(R2)                    4664
                                            0B  12 0006D           BNEQ    4$
            010A       C2 00000000'         EF  B1 0006F           CMPW    THIS_SYSID+4, 266(R2)
                                            26  13 00078           BEQL    6$
                            52              DD 0007A 4$:           PUSHL   R2                                     4667
                            54              DD 0007C               PUSHL   R4
                            05              DD 0007E               PUSHL   #5
            00000000G  EF                   03  FB 00080           CALLS   #3, CREATE_SRQ_RECORD
                            53              50  D0 00087           MOVL    R0, STATUS
                            0B              13 0008A               BEQL    5$                                     4668
                            52              DD 0008C               PUSHL   R2
                            54              DD 0008E               PUSHL   R4
            00000000G  EF                   02  FB 00090           CALLS   #2, FIND_PENDING_JOBS
                            54              DD 00097 5$:           PUSHL   R4                                     4669
                            65              01  FB 00099           CALLS   #1, REWRITE_RECORD
                            50              53  D0 0009C           MOVL    STATUS, R0                             4670
                                            04 0009F               RET
                            52              DD 000A0 6$:           PUSHL   R2                                     4673
                            54              DD 000A2               PUSHL   R4
            00000000G  EF                   02  FB 000A4           CALLS   #2, STOP_SYMBIONT_STREAM
                                      0C    AC  DD 000AB 7$:       PUSHL   SMQ_N                                  4678
                            65              01  FB 000AE           CALLS   #1, REWRITE_RECORD
                            50              01  D0 000B1           MOVL    #1, R0                                 4680
                                            04 000B4               RET
```

; Routine Size: 181 bytes,   Routine Base: CODE + 18BA

```
 3673        4681    1 ROUTINE SJC_STOP_QUEUE_MANAGER=
 3674        4682    1
 3675        4683    1 !++
 3676        4684    1 !
 3677        4685    1 !  FUNCTIONAL DESCRIPTION:
 3678        4686    1 !       This routine processes the SJC$_STOP_QUEUE_MANAGER request.
 3679        4687    1 !
 3680        4688    1 !  INPUT PARAMETERS:
 3681        4689    1 !       NONE
 3682        4690    1 !
 3683        4691    1 !  IMPLICIT INPUTS:
 3684        4692    1 !       MBX              - Pointer to buffered mailbox message.
 3685        4693    1 !
 3686        4694    1 !  OUTPUT PARAMETERS:
 3687        4695    1 !       NONE
 3688        4696    1 !
 3689        4697    1 !  IMPLICIT OUTPUTS:
 3690        4698    1 !       NONE
 3691        4699    1 !
 3692        4700    1 !  ROUTINE VALUE:
 3693        4701    1 !       Completion status to be returned to requestor.
 3694        4702    1 !
 3695        4703    1 !  SIDE EFFECTS:
 3696        4704    1 !       NONE
 3697        4705    1 !
 3698        4706    1 !--
 3699        4707    1
 3700        4708    2 BEGIN
 3701        4709    2 LOCAL
 3702        4710    2       SQX:              REF BBLOCK,     ! Pointer to SQX
 3703        4711    2       SQX_N,                            ! Record number of SQX
 3704        4712    2       SQX_NS,                           ! Record number of successor of SQX
 3705        4713    2       SQE:              REF BBLOCK,     ! Pointer to SQX entry
 3706        4714    2       SMQ_N,                            ! Record number of SMQ
 3707        4715    2       SMQ:              REF BBLOCK;     ! Pointer to SMQ
 3708        4716    2
 3709        4717    2
 3710        4718    2 ! Ensure that the requestor has OPER privilege.
 3711        4719    2 !
 3712        4720    2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
 3713        4721    2 THEN
 3714        4722    2     RETURN JBC$_NOOPER;
 3715        4723    2
 3716        4724    2
 3717        4725    2 ! Ensure that the requestor has SYSNAM privilege.
 3718        4726    2 !
 3719        4727    2 IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_SYSNAM]
 3720        4728    2 THEN
 3721        4729    2     RETURN JBC$_NOSYSNAM;
 3722        4730    2
 3723        4731    2
 3724        4732    2 IF .QUEUE_FAB[FAB$W_IFI] NEQ 0
 3725        4733    2 THEN
 3726        4734    3     BEGIN
 3727        4735    3
 3728        4736    3     ! Scan the queue index.
 3729        4737    3     !
```

```
3730    4738  3          SQX = READ_RECORD(SQH$K_RECNO);
3731    4739  3          SQX_N = .SQX[SQH$L_QUEUE_INDEX_LIST];
3732    4740  3          RELEASE_RECORD(SQH$K_RECNO);
3733    4741  3          WHILE .SQX_N NEQ 0 DO
3734    4742  4              BEGIN
3735    4743  4
3736    4744  4              ! Read the queue index record.
3737    4745  4              !
3738    4746  4              SQX = READ_RECORD(.SQX_N);
3739    4747  4
3740    4748  4
3741    4749  4              ! Scan the queue index record.
3742    4750  4              !
3743    4751  4              SQE = SQX[SYM$T_DATA];
3744    4752  4              INCR SQE_N FROM 0 TO SQX$K_ENTRIES-1 DO
3745    4753  5                  BEGIN
3746    4754  5                  IF CH$RCHAR(SQE[SQX$T_NAME]) EQL 0
3747    4755  5                  THEN
3748    4756  5                      EXITLOOP
3749    4757  5                  ELSE
3750    4758  6                      BEGIN
3751    4759  6                      IF .SQE[SQX$V_EXECUTOR]
3752    4760  6                      THEN
3753    4761  7                          BEGIN
3754    4762  7                          SMQ = READ_RECORD(SMQ_N = .SQE[SQX$L_QUEUE_LINK]);
3755    4763  8                          IF SYSID_EQL(THIS_SYSID, SMQ[SMQ$T_SYSID])
3756    4764  7                          THEN
3757    4765  8                              BEGIN
3758    4766  8                              LOCAL
3759    4767  8                                  SJH_N,                      ! Record number of SJH
3760    4768  8                                  SJH_NS,                     ! Record number of successor
3761    4769  8                                  SJH:        REF BBLOCK;     ! Pointer to SJH
3762    4770  8
3763    4771  8
3764    4772  8                              ! Take an extra lock on the queue header and execute
3765    4773  8                              ! a STOP/NEXT.
3766    4774  8                              !
3767    4775  8                              READ_RECORD(.SMQ_N);
3768    4776  8                              SJC_STOP_QUEUE(.SQX_N, .SQE, .SMQ_N, .SMQ);
3769    4777  8                              SMQ[SMQ$V_STOPPED] = TRUE;
3770    4778  8
3771    4779  8
3772    4780  8                              ! Execute a STOP/REQUEUE on each restartable job, and a
3773    4781  8                              ! STOP/ABORT on each nonrestartable job.
3774    4782  8                              !
3775    4783  8                              SJH_N = .SMQ[SMQ$L_CURRENT_LIST];
3776    4784  8                              WHILE .SJH_N NEQ 0 DO
3777    4785  9                                  BEGIN
3778    4786  9                                  SJH = READ_RECORD(.SJH_N);
3779    4787  9                                  SJH_NS = .SJH[SYM$L_LINK];
3780    4788  9                                  IF NOT .SJH[SJH$V_ABORTING]
3781    4789  9                                  AND NOT .SJH[SJH$V_ABORTED]
3782    4790  9                                  THEN
3783    4791  10                                     BEGIN
3784    4792  10                                     IF .SJH[SJH$V_RESTART]
3785    4793  10                                     THEN
3786    4794  11                                        BEGIN
```

```
; 3787    4795 11                                              SJH[SJH$V_REQUEUE] = TRUE;
; 3788    4796 11                                              SJH[SJH$V_REQUEUE_HOLD] = FALSE;
; 3789    4797 11                                              SJH[SJH$B_REQUEUE_PRIORITY] = .SJH[SJH$B_PRIORITY];
; 3790    4798 11                                              SJH[SJH$L_REQUEUE_QUEUE_LINK] = 0;
; 3791    4799 10                                              END;
; 3792    4800 10                                          ABORT_EXECUTOR_JOB(.SMQ_N, .SMQ, .SJH_N, .SJH);
; 3793    4801  9                                          END;
; 3794    4802  9                                      REWRITE_RECORD(.SJH_N);
; 3795    4803  9                                      SJH_N = .SJH_NS;
; 3796    4804  8                                      END;
; 3797    4805  8                                  REWRITE_RECORD(.SMQ_N);
; 3798    4806  8                                  END
; 3799    4807  7                              ELSE
; 3800    4808  7                                  RELEASE_RECORD(.SMQ_N);
; 3801    4809  6                              END;
; 3802    4810  5                          END;
; 3803    4811  5
; 3804    4812  5
; 3805    4813  5                      SQE = .SQE + SQX$S_SQX;
; 3806    4814  4                      END;
; 3807    4815  4
; 3808    4816  4
; 3809    4817  4                  ! Advance to the next index block.
; 3810    4818  4                  !
; 3811    4819  4                  SQX_NS = .SQX[SYM$L_LINK];
; 3812    4820  4                  RELEASE_RECORD(.SQX_N);
; 3813    4821  4                  SQX_N = .SQX_NS;
; 3814    4822  3                  END;
; 3815    4823  3
; 3816    4824  3
; 3817    4825  3              QUEUE_REFERENCE_COUNT = .QUEUE_REFERENCE_COUNT - 1;
; 3818    4826  2              END;
; 3819    4827  2
; 3820    4828  2
; 3821    4829  2 SS$_NORMAL
; 3822    4830  1 END;
```

```
                              OFFC 00000  SJC_STOP_QUEUE_MANAGER:
                                                         .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11            ; 4681
                        50 00000000'  EF  D0 00002       MOVL     MBX, R0                                         ; 4720
         08      06     A0              02  E0 00009      BBS     #2, 6(R0), 1$
                        50 00042894    8F  D0 0000E       MOVL     #272532, R0                                     ; 4722
                                           04 00015       RET
         08      04     A0              02  E0 00016  1$:  BBS     #2, 4(R0), 2$                                   ; 4727
                        50 00042814    8F  D0 0001B       MOVL     #272404, R0                                     ; 4729
                                           04 00022       RET
                           00000000'  EF  B5 00C23  2$:  TSTW     QUEUE_FAB+2                                      ; 4732
                                       03  12 00029       BNEQ     3$
                                      0107  31 0002B       BRW     18$
                                        01  DD 0002E  3$:  PUSHL   #1                                              ; 4738
            00000000G  EF               01  FB 00030       CALLS   #1, READ_RECORD
                                      5A  50  D0 00037       MOVL   R0, SQX
                                      57  64  AA  D0 0003A   MOVL   100(SQX), SQX_N                                 ; 4739
```

```
                          01 DD 0003E          PUSHL   #1                          4740
   00000000G EF           01 FB 00040          CALLS   #1, RELEASE_RECORD          4741
                    57 D5 00047 4$:    TSTL     SQX_N
                    03 12 00049          BNEQ    5$
                  00E1 31 0004B          BRW     17$
                    57 DD 0004E 5$:    PUSHL     SQX_N                              4746
   00000000G EF           01 FB 00050          CALLS   #1, READ_RECORD
               5A   50 D0 00057          MOVL    R0, SQX
               54 OC AA 9E 0005A          MOVAB  12(R10), SQE                       4751
                    59 D4 0005E          CLRL    SQE_N                             4752
                    64 95 00060 6$:    TSTB      (SQE)                             4754
                    03 12 00062          BNEQ    7$
                  00B6 31 00064          BRW     16$
   03    20 A4     01 E0 00067 7$:    BBS       #1, 32(SQE), 8$                    4759
                  00A5 31 0006C          BRW     15$
          56   24 A4 D0 0006F 8$:    MOVL       36(SQE), SMQ_N                     4762
                    56 DD 00073          PUSHL   SMQ_N
   00000000G EF           01 FB 00075          CALLS   #1, READ_RECORD
               53   50 D0 0007C          MOVL    R0, SMQ
      0106 C3 00000000' EF D1 0007F          CMPL   THIS_SYSID, 262(SMQ)           4763
                    09 12 00088          BNEQ    9$
      010A C3 00000000' EF B1 0008A          CMPW   THIS_SYSID+4, 266(SMQ)
                    76 12 00093 9$:    BNEQ      14$
                    56 DD 00095          PUSHL   SMQ_N                             4775
   00000000G EF           01 FB 00097          CALLS   #1, READ_RECORD
                    53 DD 0009E          PUSHL   SMQ                               4776
              0050 8F BB 000A0          PUSHR   #^M<R4,R6>
                    57 DD 000A4          PUSHL   SQX_N
      FEA0 CF             04 FB 000A6          CALLS   #4, SJC_STOP_QUEUE
         11 A3           02 88 000AB          BISB2   #2, 17(SMQ)                  4777
         55   48 A3 D0 000AF          MOVL       72(SMQ), SJH_N                    4783
                    4B 13 000B3 10$:    BEQL     13$                              4784
                    55 DD 000B5          PUSHL   SJH_N                             4786
   00000000G EF           01 FB 000B7          CALLS   #1, READ_RECORD
               52   50 D0 000BE          MOVL    R0, SJH
               58   62 D0 000C1          MOVL    (SJH), SJH_NS                     4787
   29    10 A2     01 E0 000C4          BBS     #1, 16(SJH), 12$                   4788
         25   10 A2 E8 000C9          BLBS      16(SJH), 12$                       4789
   13    0E A2     01 E1 000CD          BBC     #1, 14(SJH), 11$                   4792
         11 A2           01 88 000D2          BISB2   #1, 17(SJH)                  4795
         11 A2           02 8A 000D6          BICB2   #2, 17(SJH)                  4796
      017E C2  017D C2 90 000DA          MOVB   381(SJH), 382(SJH)                 4797
              0138 C2 D4 000E1          CLRL    312(SJH)                           4798
                    52 DD 000E5 11$:    PUSHL    SJH                              4800
                    28 BB 000E7          PUSHR   #^M<R3,R5>
                    56 DD 000E9          PUSHL   SMQ_N
   00000000G EF           04 FB 000EB          CALLS   #4, ABORT_EXECUTOR_JOB
                    55 DD 000F2 12$:    PUSHL    SJH_N                            4802
   00000000G EF           01 FB 000F4          CALLS   #1, REWRITE_RECORD
               55   58 D0 000FB          MOVL    SJH_NS, SJH_N                    4803
                    B3 11 000FE          BRB     10$                              4784
                    56 DD 00100 13$:    PUSHL    SMQ_N                            4805
   00000000G EF           01 FB 00102          CALLS   #1, REWRITE_RECORD
                    09 11 00109          BRB     15$                              4763
                    56 DD 0010B 14$:    PUSHL    SMQ_N                            4808
   00000000G EF           01 FB 0010D          CALLS   #1, RELEASE_RECORD
               54   28 C0 00114 15$:    ADDL2    #40, SQE                         4813
```

```
        FF43              59                    01          0B F1 00117        ACBL    #11, #1, SQE_N, 6$                       : 4752
                                                5B          6A D0 0011D 16$:   MOVL    (SQX), SQX_NS                           : 4819
                                                57          57 DD 00120        PUSHL   SQX_N                                   : 4820
                        00000000G EF            01          FB 00122           CALLS   #1, RELEASE_RECORD
                                                57          5B D0 00129        MOVL    SQX_NS, SQX_N                           : 4821
                                             FF18          31 0012C            BRW     4$                                      : 4741
                        00000000'  EF          D7 0012F 17$:                   DECL    QUEUE_REFERENCE_COUNT                   : 4825
                                    50          01 D0 00135 18$:               MOVL    #1, R0                                  : 4830
                                                04 00138                       RET
```

; Routine Size: 313 bytes,   Routine Base: CODE + 196F

SNDJBC
V04-000
$SNDACC, $SNDSMB, and $SNDJBC services
H 4
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1
Page 125
(34)
SN
VO

```
3824    4831  1 ROUTINE SJC_SYNCHRONIZE_JOB(SQX_N,SQE,SMQ_N,SMQ)=
3825    4832  1
3826    4833  1 !++
3827    4834  1 !
3828    4835  1 ! FUNCTIONAL DESCRIPTION:
3829    4836  1 !     This routine processes the SJC$_SYNCHRONIZE_JOB (SMR$K_SYNCJOB) request.
3830    4837  1 !
3831    4838  1 ! INPUT PARAMETERS:
3832    4839  1 !     SQX_N           - Record number of SQX.
3833    4840  1 !     SQE             - Pointer to SQX entry.
3834    4841  1 !     SMQ_N           - Record number of SMQ.
3835    4842  1 !     SMQ             - Pointer to SMQ.
3836    4843  1 !
3837    4844  1 ! IMPLICIT INPUTS:
3838    4845  1 !     MBX             - Pointer to buffered mailbox message.
3839    4846  1 !
3840    4847  1 ! OUTPUT PARAMETERS:
3841    4848  1 !     NONE
3842    4849  1 !
3843    4850  1 ! IMPLICIT OUTPUTS:
3844    4851  1 !     NONE
3845    4852  1 !
3846    4853  1 ! ROUTINE VALUE:
3847    4854  1 !     Completion status to be returned to requestor.
3848    4855  1 !
3849    4856  1 ! SIDE EFFECTS:
3850    4857  1 !     NONE
3851    4858  1 !
3852    4859  1 !--
3853    4860  1
3854    4861  2 BEGIN
3855    4862  2 MAP
3856    4863  2     SQE:            REF BBLOCK,      ! Pointer to SQX entry
3857    4864  2     SMQ:            REF BBLOCK;      ! Pointer to SMQ
3858    4865  2 LOCAL
3859    4866  2     SJH_N,                           ! Record number of SJH
3860    4867  2     SJH:            REF BBLOCK,      ! Pointer to SJH
3861    4868  2     STATUS_1,                        ! Status return
3862    4869  2     STATUS_2;                        ! Status return
3863    4870  2
3864    4871  2
3865    4872  2 ! Ensure that one of the job ID or the job name is specified.
3866    4873  2 !
3867    4874  2 IF NOT .ITEM_PRESENT[SJC$_ENTRY_NUMBER] AND NOT .ITEM_PRESENT[SJC$_JOB_NAME]
3868    4875  2 THEN
3869    4876  2     RETURN JBC$_MISREQPAR;
3870    4877  2
3871    4878  2
3872    4879  2 ! Locate the job to be synchronized on.
3873    4880  2 !
3874    4881  2 STATUS_1 = SEARCH_QUEUES(
3875    4882  2     QSM_M_TIMER OR QSM_M_PENDING OR QSM_M_HOLD OR QSM_M_CURRENT,
3876    4883  2     .SMQ_N, .SMQ,
3877    4884  2     (IF .ITEM_PRESENT[SJC$_ENTRY_NUMBER] THEN VALUE_ENTRY_NUMBER ELSE 0),
3878    4885  2     VALUE_JOB_NAME,
3879    4886  2     CHECK_R_ACCESS,
3880    4887  2     QSM_K_NO_REMOVE;
```

```
; 3881    4888  2       SJH_N, SJH);
; 3882    4889  2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
; 3883    4890  2
; 3884    4891  2
; 3885    4892  2 ! Enqueue the SYNCHRONIZE request.
; 3886    4893  2 !
; 3887    4894  2 STATUS_2 = CREATE_SRQ_RECORD(SRQ$K_SYNCHRONIZE_JOB, .SJH_N, .SJH);
; 3888    4895  2 REWRITE_RECORD(.SJH_N);
; 3889    4896  2
; 3890    4897  2
; 3891    4898  2 .STATUS_2
; 3892    4899  1 END;
```

```
                                CF04 00000 SJC_SYNCHRONIZE_JOB:
                                                    .WORD    Save R2,R8,R9,R10,R11                    ; 4831
                52 00000000' EF  9E 00002            MOVAB    ITEM_PRESENT, R2                        ; 4874
        0D   03 A2           06  E0 00009            BBS      #6, ITEM_PRESENT+3, 1$
                         09  A2  95 0000E            TSTB     ITEM_PRESENT+9
                         08  19 00011                BLSS     1$
                50 00048108 8F  D0 00013            MOVL     #295176, R0                             ; 4876
                         04 0001A                    RET
                         7E  D4 0001B 1$:            CLRL     -(SP)                                   ; 4881
                00000000G EF  9F 0001D               PUSHAB   CHECK_R_ACCESS
                      04D6 C2  9F 00023               PUSHAB   VALUE_JOB_NAME
        08   03 A2           06  E1 00027            BBC      #6, ITEM_PRESENT+3, 2$                  ; 4884
                50      7E  A2  9E 0002C            MOVAB    VALUE_ENTRY_NUMBER, R0
                         50  DD 00030                PUSHL    R0
                         02  11 00032                BRB      3$
                         7E  D4 00034 2$:            CLRL     -(SP)
                7E      0C  AC  7D 00036 3$:         MOVQ     SMQ_N, -(SP)                            ; 4883
                         1E  DD 0003A                PUSHL    #30                                     ; 4882
        00000000G EF        07  FB 0003C             CALLS    #7, SEARCH_QUEUES
                     1B  50  E9 00043                BLBC     STATUS_1, 4$                            ; 4889
                     7E  58  7D 00046                MOVQ     SJH_N, -(SP)                            ; 4894
                         03  DD 00049                PUSHL    #3
        00000000G EF        03  FB 0004B             CALLS    #3, CREATE_SRQ_RECORD
                     59  50  D0 00052                MOVL     R0, STATUS_2
                         58  DD 00055                PUSHL    SJH_N                                   ; 4895
        00000000G EF        01  FB 00057             CALLS    #1, REWRITE_RECORD
                     50  59  D0 0005E                MOVL     STATUS_2, R0                            ; 4899
                         04 00061 4$:                RET
```

; Routine Size: 98 bytes,   Routine Base: CODE + 1AA8

```
3894   4900  1 ROUTINE SJC_WRITE_ACCOUNTING=
3895   4901  1
3896   4902  1 !++
3897   4903  1 !
3898   4904  1 ! FUNCTIONAL DESCRIPTION:
3899   4905  1 !     This routine processes the SJC$_WRITE_ACCOUNTING (ACC$K_INSMESG)
3900   4906  1 !     request.
3901   4907  1 !
3902   4908  1 ! INPUT PARAMETERS:
3903   4909  1 !     NONE
3904   4910  1 !
3905   4911  1 ! IMPLICIT INPUTS:
3906   4912  1 !     MBX              - Pointer to buffered mailbox message.
3907   4913  1 !
3908   4914  1 ! OUTPUT PARAMETERS:
3909   4915  1 !     NONE
3910   4916  1 !
3911   4917  1 ! IMPLICIT OUTPUTS:
3912   4918  1 !     NONE
3913   4919  1 !
3914   4920  1 ! ROUTINE VALUE:
3915   4921  1 !     Completion status to be returned to requestor.
3916   4922  1 !
3917   4923  1 ! SIDE EFFECTS:
3918   4924  1 !     NONE
3919   4925  1 !
3920   4926  1 !--
3921   4927  1
3922   4928  2 BEGIN
3923   4929  2 LOCAL
3924   4930  2     SJH_N,                          ! Record number of SJH
3925   4931  2     SMQ_N,                          ! Record number of SMQ
3926   4932  2     LENGTH;                         ! Length of message
3927   4933  2
3928   4934  2
3929   4935  2 IF
3930   4936  3     BEGIN
3931   4937  3     IF .BITVECTOR[MBX[ACM$L_STS], $BITPOSITION(PCB$V_BATCH)]
3932   4938  3     THEN
3933   4939  3         FIND_PROCESS_DATA(
3934   4940  3             PDE_K_BATCH, .MBX[ACM$L_PID], FALSE;
3935   4941  3             , SMQ_N, SJH_N)
3936   4942  3     ELSE
3937   4943  3         FALSE
3938   4944  3     END
3939   4945  2 THEN
3940   4946  3     BEGIN
3941   4947  3     LOCK_QUEUE_FILE();
3942   4948  3     WRITE_USER_ACCOUNTING_RECORD(
3943   4949  3         .MBX,
3944   4950  3         READ_RECORD(.SJH_N), READ_RECORD(.SMQ_N),
3945   4951  3         .VALUE_ACCOUNTING_MESSAGE[SDSC_W_LENGTH],
3946   4952  3         .VALUE_ACCOUNTING_MESSAGE[SDSC_A_POINTER]);
3947   4953  3     UNLOCK_QUEUE_FILE();
3948   4954  3     END
3949   4955  2 ELSE
3950   4956  3     BEGIN
```

```
 : 3951         4957  3         WRITE_USER_ACCOUNTING_RECORD(
 : 3952         4958  3             .MBX,
 : 3953         4959  3             0, 0,
 : 3954         4960  3             .VALUE_ACCOUNTING_MESSAGE[SDSC_W_LENGTH]
 : 3955         4961  3             .VALUE_ACCOUNTING_MESSAGE[SDSC_A_POINTER]);
 : 3956         4962  2         END;
 : 3957         4963  2
 : 3958         4964  2
 : 3959         4965  2   SS$_NORMAL
 : 3960         4966  1   END;
```

```
                                        0E1C 00000 SJC_WRITE_ACCOUNTING:
                                                                    .WORD    Save R2,R3,R4,R9,R10,R11                         : 4900
                        54 00000000G  EF  9E 00002                  MOVAB    WRITE_USER_ACCOUNTING_RECORD, R4
                        53 00000000G  EF  9E 00009                  MOVAB    READ_RECORD, R3
                        52 00000000'  EF  9E 00010                  MOVAB    MBX, R2
                        50            62  D0 00017                  MOVL     MBX, R0                                          : 4937
       3D        2D  A0            06  E1 0001A                     BBC      #6, 45(R0), 1$
                        7E            D4 0001F                      CLRL     -(SP)                                            : 4939
                        28            A0  DD 00021                  PUSHL    40(R0)                                           : 4940
                        01            DD 00024                      PUSHL    #1                                               : 4939
          0000000CG  EF               03  FB 00026                  CALLS    #3, FIND_PROCESS_DATA
                        2C            50  E9 0002D                   BLBC     R0  1$
          00000000G  EF               00  FB 00030                   CALLS   #0, LOCK_QUEUE_FILE                              : 4947
                        0BE2  C2      DD 00037                       PUSHL    VALUE_ACCOUNTING_MESSAGE+2                      : 4952
                        7E    0BE0  C2  3C 0003B                     MOVZWL   VALUE_ACCOUNTING_MESSAGE, -(SP)                : 4951
                        5A            DD 00040                       PUSHL    SMQ_N                                           : 4950
                        63            01  FB 00042                   CALLS    #1, READ_RECORD
                        50            DD 00045                       PUSHL    R0
                        5B            DD 00047                       PUSHL    SJH_N
                        63            01  FB 00049                   CALLS    #1, READ_RECORD
                        50            DD 0004C                       PUSHL    R0
                        62            DD 0004E                       PUSHL    MBX                                             : 4949
                        64            05  FB 00050                   CALLS    #5, WRITE_USER_ACCOUNTING_RECORD
          00000000G  EF               00  FB 00053                   CALLS    #0, UNLOCK_QUEUE_FILE                           : 4953
                        10            11 0005A                       BRB      2$                                             : 4935
                        0BE2  C2      DD 0005C  1$:                  PUSHL    VALUE_ACCOUNTING_MESSAGE+2                      : 4961
                        7E    0BE0  C2  3C 00060                     MOVZWL   VALUE_ACCOUNTING_MESSAGE, -(SP)                : 4960
                        7E            7C 00065                       CLRQ     -(SP)                                           : 4957
                        62            DD 00067                       PUSHL    MBX                                             : 4958
                        64            05  FB 00069                   CALLS    #5, WRITE_USER_ACCOUNTING_RECORD
                        50            01  D0 0006C  2$:              MOVL     #1, R0                                          : 4966
                                      04 0006F                       RET
```

; Routine Size: 112 bytes,   Routine Base: CODE + 1B0A

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

L 4
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1

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SN
V0

```
  3962      4967   1  ROUTINE PROCESS_ONE_OPTION(CODE,VALUE_SIZE,VALUE_ADDRESS)=
  3963      4968   1
  3964      4969   1  !++
  3965      4970   1  !
  3966      4971   1  ! FUNCTIONAL DESCRIPTION:
  3967      4972   1  !     This routine validates and stores one parameter value 'or the $SNDSMB
  3968      4973   1  !     and $SNDJBC services.
  3969      4974   1  !
  3970      4975   1  ! INPUT PARAMETERS:
  3971      4976   1  !     CODE              - $SNDJBC item code.
  3972      4977   1  !     VALUE_SIZE        - Length of item value.
  3973      4978   1  !     VALUE_ADDRESS     - Address of item value.
  3974      4979   1  !
  3975      4980   1  ! IMPLICIT INPUTS:
  3976      4981   1  !     MBX               - Pointer to buffered mailbox message.
  3977      4982   1  !
  3978      4983   1  ! OUTPUT PARAMETERS:
  3979      4984   1  !     NONE
  3980      4985   1  !
  3981      4986   1  ! IMPLICIT OUTPUTS:
  3982      4987   1  !     Values in the item list in internal storage.
  3983      4988   1  !
  3984      4989   1  ! ROUTINE VALUE:
  3985      4990   1  !     Completion status.
  3986      4991   1  !
  3987      4992   1  ! SIDE EFFECTS:
  3988      4993   1  !     NONE
  3989      4994   1  !
  3990      4995   1  !--
  3991      4996   1
  3992      4997   2  BEGIN
  3993      4998   2  MAP
  3994      4999   2         VALUE_ADDRESS:   REF BBLOCK;        ! Pointer to parameter value
  3995      5000   2
  3996      5001   2
  3997      5002   2  MACRO
  3998   M  5003   2         VALUE_OFFSET (A)=
  3999      5004   2             A - VALUE_STORAGE_BASE %;
  4000      5005   2
  4001      5006   2
  4002      5007   2  OWN
  4003      5008   2         REQUIRED_VALUE_SIZE:
  4004      5009   2             VECTOR[MAX_SNDJBC_ITEM+1,WORD,SIGNED] PSECT(CODE) PRESET(
  4005      5010   2                 [SJC$_ACCOUNTING_MESSAGE]=          -255,
  4006      5011   2                 [SJC$_ACCOUNTING_TYPES]=            4,
  4007      5012   2                 [SJC$_ACCOUNT_NAME]=                -(ACM$S_ACCOUNT),
  4008      5013   2                 [SJC$_AFTER_TIME]=                  SJH$S_TIME,
  4009      5014   2                 [SJC$_ALIGNMENT_PAGES]=             4,
  4010      5015   2                 [SJC$_BASE_PRIORITY]=               4,
  4011      5016   2                 [SJC$_BATCH_INPUT]=                 0,
  4012      5017   2                 [SJC$_BATCH_OUTPUT]=                0,
  4013      5018   2                 [SJC$_BUFFER_COUNT]=                4,
  4014      5019   2                 [SJC$_CHARACTERISTIC_NAME]=         0,
  4015      5020   2                 [SJC$_CHARACTERISTIC_NUMBER]=       4,
  4016      5021   2                 [SJC$_CHECKPOINT_DATA]=             -255,
  4017      5022   2                 [SJC$_CLI]=                         -(SJH$S_CLI-1),
  4018      5023   2                 [SJC$_CPU_DEFAULT]=                 4,
```

```
: 4019    5024  2    [SJC$_CPU_LIMIT]=                4,
: 4020    5025  2    [SJC$_DESTINATION_QUEUE]=        0,
: 4021    5026  2    [SJC$_DEVICE_NAME]=             -(SMQ$S_DEVICE_NAME-1),
: 4022    5027  2    [SJC$_EXTEND_QUANTITY]=          4,
: 4023    5028  2    [SJC$_ENTRY_NUMBER]=             4,
: 4024    5029  2    [SJC$_ENTRY_NUMBER_OUTPUT]=      4,
: 4025    5030  2    [SJC$_FILE_COPIES]=              4,
: 4026    5031  2    [SJC$_FILE_IDENTIFICATION]=      0,
: 4027    5032  2    [SJC$_FILE_SETUP_MODULES]=       0,
: 4028    5033  2    [SJC$_FILE_SPECIFICATION]=      -(SQR$S_FILE_SPECIFICATION-1),
: 4029    5034  2    [SJC$_FIRST_PAGE]=               4,
: 4030    5035  2    [SJC$_FORM_DESCRIPTION]=        -(SFM$S_DESCRIPTION-1),
: 4031    5036  2    [SJC$_FORM_LENGTH]=              4,
: 4032    5037  2    [SJC$_FORM_MARGIN_BOTTOM]=       4,
: 4033    5038  2    [SJC$_FORM_MARGIN_LEFT]=         4,
: 4034    5039  2    [SJC$_FORM_MARGIN_RIGHT]=        4,
: 4035    5040  2    [SJC$_FORM_MARGIN_TOP]=          4,
: 4036    5041  2    [SJC$_FORM_NAME]=                0,
: 4037    5042  2    [SJC$_FORM_NUMBER]=              4,
: 4038    5043  2    [SJC$_FORM_SETUP_MODULES]=       0,
: 4039    5044  2    [SJC$_FORM_STOCK]=               0,
: 4040    5045  2    [SJC$_FORM_WIDTH]=               4,
: 4041    5046  2    [SJC$_GENERIC_TARGET]=           0,
: 4042    5047  2    [SJC$_JOB_COPIES]=               4,
: 4043    5048  2    [SJC$_JOB_LIMIT]=                4,
: 4044    5049  2    [SJC$_JOB_NAME]=                -(SJH$S_NAME-1),
: 4045    5050  2    [SJC$_JOB_RESET_MODULES]=        0,
: 4046    5051  2    [SJC$_JOB_SIZE_MAXIMUM]=         4,
: 4047    5052  2    [SJC$_JOB_SIZE_MINIMUM]=         4,
: 4048    5053  2    [SJC$_JOB_STATUS_OUTPUT]=        0,
: 4049    5054  2    [SJC$_LAST_PAGE]=                4,
: 4050    5055  2    [SJC$_LIBRARY_SPECIFICATION]=   -(SMQ$S_LIBRARY-1),
: 4051    5056  2    [SJC$_LOG_QUEUE]=                0,
: 4052    5057  2    [SJC$_LOG_SPECIFICATION]=        0,
: 4053    5058  2    [SJC$_NOTE]=                     0,
: 4054    5059  2    [SJC$_OPERATOR_REQUEST]=         0,
: 4055    5060  2    [SJC$_OWNER_UIC]=                4,
: 4056    5061  2    [SJC$_PAGE_SETUP_MODULES]=       0,
: 4057    5062  2    [SJC$_PARAMETER_1]=             -(JBC$K_MAXPARSIZ),
: 4058    5063  2    [SJC$_PARAMETER_2]=             -(JBC$K_MAXPARSIZ),
: 4059    5064  2    [SJC$_PARAMETER_3]=             -(JBC$K_MAXPARSIZ),
: 4060    5065  2    [SJC$_PARAMETER_4]=             -(JBC$K_MAXPARSIZ),
: 4061    5066  2    [SJC$_PARAMETER_5]=             -(JBC$K_MAXPARSIZ),
: 4062    5067  2    [SJC$_PARAMETER_6]=             -(JBC$K_MAXPARSIZ),
: 4063    5068  2    [SJC$_PARAMETER_7]=             -(JBC$K_MAXPARSIZ),
: 4064    5069  2    [SJC$_PARAMETER_8]=             -(JBC$K_MAXPARSIZ),
: 4065    5070  2    [SJC$_PRIORITY]=                 4,
: 4066    5071  2    [SJC$_PROCESSOR]=               -(SMQ$S_PROCESSOR-1),
: 4067    5072  2    [SJC$_PROTECTION]=               4,
: 4068    5073  2    [SJC$_QUEUE]=                    0,
: 4069    5074  2    [SJC$_QUEUE_FILE_SPECIFICATION]=-255,
: 4070    5075  2    [SJC$_RELATIVE_PAGE]=            4,
: 4071    5076  2    [SJC$_RESERVED_INPUT_1]=         4,
: 4072    5077  2    [SJC$_RESERVED_INPUT_2]=         4,
: 4073    5078  2    [SJC$_RESERVED_INPUT_3]=         4,
: 4074    5079  2    [SJC$_RESERVED_INPUT_4]=        -255,
: 4075    5080  2    [SJC$_RESERVED_OUTPUT_1]=        0,
```

```
; 4076      5081   2              [SJC$_RESERVED_OUTPUT_2]=            0,
; 4077      5082   2              [SJC$_SCSNODE_NAME]=                SMQ$S_SYSID,
; 4078      5083   2              [SJC$_SEARCH_STRING]=               -(SRQ$S_P5-1),
; 4079      5084   2              [SJC$_UIC]=                         4,
; 4080      5085   2              [SJC$_USERNAME]=                    -(ACM$S_USERNAME),
; 4081      5086   2              [SJC$_USER_IDENTIFICATION]=         $BYTEOFFSET(ACM$B_PROCPRI) + 1 - $BYTEOFFSET(ACM$L_UIC),
; 4082      5087   2              [SJC$_WSDEFAULT]=                   4,
; 4083      5088   2              [SJC$_WSEXTENT]=                    4,
; 4084      5089   2              [SJC$_WSQUOTA]=                     4);
; 4085      5090   2
; 4086      5091   2
; 4087      5092   2 LITERAL
; 4088      5093   2              K_ACCOUNTING_TYPES=                 0,
; 4089      5094   2              K_ACCOUNT_NAME=                     1,
; 4090      5095   2              K_AFTER_TIME=                       2,
; 4091      5096   2              K_ALIGNMENT_PAGES=                  3,
; 4092      5097   2              K_BASE_PRIORITY=                    4,
; 4093      5098   2              K_BUFFER_COUNT=                     5,
; 4094      5099   2              K_CHARACTERISTIC_NAME=              6,
; 4095      5100   2              K_CHARACTERISTIC_NUMBER=            7,
; 4096      5101   2              K_DESTINATION_QUEUE_NAME=           8,
; 4097      5102   2              K_FILE_IDENTIFICATION=              9,
; 4098      5103   2              K_FORM_NAME=                        10,
; 4099      5104   2              K_FORM_NUMBER=                      11,
; 4100      5105   2              K_GENERIC_TARGET=                   12,
; 4101      5106   2              K_OUTPUT_ITEM=                      13,
; 4102      5107   2              K_OWNERSHIP=                        14,
; 4103      5108   2              K_PRIORITY=                         15,
; 4104      5109   2              K_QUEUE_NAME=                       16,
; 4105      5110   2              K_STRING=                           17,
; 4106      5111   2              K_UIC=                              18,
; 4107      5112   2              K_USERNAME=                         19,
; 4108      5113   2              K_USER_IDENTIFICATION=              20,
; 4109      5114   2              K_VALUE=                            21,
; 4110      5115   2              K_VALUE_NOT_0=                      22,
; 4111      5116   2              K_VALUE_0_TO_255=                   23,
; 4112      5117   2              K_VALUE_1_TO_255=                   24,
; 4113      5118   2              K_VALUE_0_TO_65535=                 25,
; 4114      5119   2              K_VALUE_1_TO_65535=                 26;
; 4115      5120   2
; 4116      5121   2 OWN
; 4117      5122   2              VALUE_STORAGE_CASE:
; 4118      5123   2              VECTOR[MAX_SNDJBC_ITEM+1,BYTE] PSECT(CODE) PRESET(
; 4119      5124   2                      [SJC$_ACCOUNTING_MESSAGE]=          K_STRING,
; 4120      5125   2                      [SJC$_ACCOUNTING_TYPES]=            K_ACCOUNTING_TYPES,
; 4121      5126   2                      [SJC$_ACCOUNT_NAME]=                K_ACCOUNT_NAME,
; 4122      5127   2                      [SJC$_AFTER_TIME]=                  K_AFTER_TIME,
; 4123      5128   2                      [SJC$_ALIGNMENT_PAGES]=             K_ALIGNMENT_PAGES,
; 4124      5129   2                      [SJC$_BASE_PRIORITY]=               K_BASE_PRIORITY,
; 4125      5130   2                      [SJC$_BATCH_INPUT]=                 K_STRING,
; 4126      5131   2                      [SJC$_BATCH_OUTPUT]=                K_OUTPUT_ITEM,
; 4127      5132   2                      [SJC$_BUFFER_COUNT]=                K_BUFFER_COUNT,
; 4128      5133   2                      [SJC$_CHARACTERISTIC_NAME]=         K_CHARACTERISTIC_NAME,
; 4129      5134   2                      [SJC$_CHARACTERISTIC_NUMBER]=       K_CHARACTERISTIC_NUMBER,
; 4130      5135   2                      [SJC$_CHECKPOINT_DATA]=             K_STRING,
; 4131      5136   2                      [SJC$_CLI]=                         K_STRING,
; 4132      5137   2                      [SJC$_CPU_DEFAULT]=                 K_VALUE,
```

```
: 4133      5138  2        [SJC$_CPU_LIMIT]=                         K_VALUE,
: 4134      5139  2        [SJC$_DESTINATION_QUEUE]=                 K_DESTINATION_QUEUE_NAME,
: 4135      5140  2        [SJC$_DEVICE_NAME]=                       K_STRING,
: 4136      5141  2        [SJC$_ENTRY_NUMBER]=                      K_VALUE,
: 4137      5142  2        [SJC$_ENTRY_NUMBER_OUTPUT]=               K_OUTPUT_ITEM,
: 4138      5143  2        [SJC$_EXTEND_QUANTITY]=                   K_VALUE_0_TO_65535,
: 4139      5144  2        [SJC$_FILE_COPIES]=                       K_VALUE_1_TO_255,
: 4140      5145           [SJC$_FILE_IDENTIFICATION]=               K_FILE_IDENTIFICATION,
: 4141      5146  2        [SJC$_FILE_SETUP_MODULES]=                K_STRING,
: 4142      5147  2        [SJC$_FILE_SPECIFICATION]=                K_STRING,
: 4143      5148  2        [SJC$_FIRST_PAGE]=                        K_VALUE_NOT_0,
: 4144      5149  2        [SJC$_FORM_DESCRIPTION]=                  K_STRING,
: 4145      5150           [SJC$_FORM_LENGTH]=                       K_VALUE_1_TO_255,
: 4146      5151  2        [SJC$_FORM_MARGIN_BOTTOM]=                K_VALUE_0_TO_255,
: 4147      5152  2        [SJC$_FORM_MARGIN_LEFT]=                  K_VALUE_0_TO_65535,
: 4148      5153  2        [SJC$_FORM_MARGIN_RIGHT]=                 K_VALUE_0_TO_255,
: 4149      5154  2        [SJC$_FORM_MARGIN_TOP]=                   K_VALUE_0_TO_65535,
: 4150      5155  2        [SJC$_FORM_NAME]=                         K_FORM_NAME,
: 4151      5156  2        [SJC$_FORM_NUMBER]=                       K_FORM_NUMBER,
: 4152      5157  2        [SJC$_FORM_SETUP_MODULES]=                K_STRING,
: 4153      5158  2        [SJC$_FORM_STOCK]=                        K_FORM_NAME,
: 4154      5159  2        [SJC$_FORM_WIDTH]=                        K_VALUE_1_TO_65535,
: 4155      5160  2        [SJC$_GENERIC_TARGET]=                    K_GENERIC_TARGET,
: 4156      5161  2        [SJC$_JOB_COPIES]=                        K_VALUE_1_TO_255,
: 4157      5162  2        [SJC$_JOB_LIMIT]=                         K_VALUE_1_TO_255,
: 4158      5163  2        [SJC$_JOB_NAME]=                          K_STRING,
: 4159      5164  2        [SJC$_JOB_RESET_MODULES]=                 K_STRING,
: 4160      5165  2        [SJC$_JOB_SIZE_MAXIMUM]=                  K_VALUE_NOT_0,
: 4161      5166  2        [SJC$_JOB_SIZE_MINIMUM]=                  K_VALUE_NOT_0,
: 4162      5167  2        [SJC$_JOB_STATUS_OUTPUT]=                 K_OUTPUT_ITEM,
: 4163      5168  2        [SJC$_LAST_PAGE]=                         K_VALUE_NOT_0,
: 4164      5169  2        [SJC$_LIBRARY_SPECIFICATION]=             K_STRING,
: 4165      5170  2        [SJC$_LOG_QUEUE]=                         K_DESTINATION_QUEUE_NAME,
: 4166      5171  2        [SJC$_LOG_SPECIFICATION]=                 K_STRING,
: 4167      5172  2        [SJC$_NOTE]=                              K_STRING,
: 4168      5173  2        [SJC$_OPERATOR_REQUEST]=                  K_STRING,
: 4169      5174  2        [SJC$_OWNER_UIC]=                         K_OWNERSHIP,
: 4170      5175  2        [SJC$_PAGE_SETUP_MODULES]=                K_STRING,
: 4171      5176  2        [SJC$_PARAMETER_1]=                       K_STRING,
: 4172      5177  2        [SJC$_PARAMETER_2]=                       K_STRING,
: 4173      5178  2        [SJC$_PARAMETER_3]=                       K_STRING,
: 4174      5179  2        [SJC$_PARAMETER_4]=                       K_STRING,
: 4175      5180  2        [SJC$_PARAMETER_5]=                       K_STRING,
: 4176      5181  2        [SJC$_PARAMETER_6]=                       K_STRING,
: 4177      5182  2        [SJC$_PARAMETER_7]=                       K_STRING,
: 4178      5183  2        [SJC$_PARAMETER_8]=                       K_STRING,
: 4179      5184  2        [SJC$_PRIORITY]=                          K_PRIORITY,
: 4180      5185  2        [SJC$_PROCESSOR]=                         K_STRING,
: 4181      5186  2        [SJC$_PROTECTION]=                        K_OWNERSHIP,
: 4182      5187  2        [SJC$_QUEUE]=                             K_QUEUE_NAME,
: 4183      5188  2        [SJC$_QUEUE_FILE_SPECIFICATION]=          K_STRING,
: 4184      5189  2        [SJC$_RELATIVE_PAGE]=                     K_VALUE,
: 4185      5190  2        [SJC$_RESERVED_INPUT_1]=                  K_VALUE_0_TO_255,
: 4186      5191  2        [SJC$_RESERVED_INPUT_2]=                  K_VALUE_0_TO_65535,
: 4187      5192  2        [SJC$_RESERVED_INPUT_3]=                  K_VALUE,
: 4188      5193  2        [SJC$_RESERVED_INPUT_4]=                  K_STRING,
: 4189      5194  2        [SJC$_RESERVED_OUTPUT_1]=                 K_OUTPUT_ITEM,
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; 4190    5195    2                [SJC$_RESERVED_OUTPUT_2]=          K_OUTPUT_ITEM,
; 4191    5196    2                [SJC$_SCSNODE_NAME]=              K_VALUE,
; 4192    5197    2                [SJC$_SEARCH_STRING]=             K_STRING,
; 4193    5198    2                [SJC$_UIC]=                       K_UIC,
; 4194    5199    2                [SJC$_USERNAME]=                  K_USERNA' _,
; 4195    5200    2                [SJC$_USER_IDENTIFICATION]=       K_USER_IDENTIFICATION,
; 4196    5201    2                [SJC$_WSDEFAULT]=                 K_VALUE_1_TO_65535,
; 4197    5202    2                [SJC$_WSEXTENT]=                  K_VALUE_1_TO_65535,
; 4198    5203    2                [SJC$_WSQUOTA]=                   K_VALUE_1_TO_65535);
; 4199    5204    2
; 4200    5205    2
; 4201    5206    2  OWN
; 4202    5207    2                VALUE_STORAGE_OFFSET:
; 4203    5208    2                    VECTOR[MAX_SNDJBC_ITEM+1,WORD,SIGNED] PSECT(CODE) PRESET(
; 4204    5209    2                [SJC$_ACCOUNTING_MESSAGE]=        VALUE_OFFSET_(VALUE_ACCOUNTING_MESSAGE),
; 4205    5210    2                [SJC$_ACCOUNTING_TYPES]=          VALUE_OFFSET_(VALUE_ACCOUNTING_TYPES),
; 4206    5211    2                [SJC$_AFTER_TIME]=                VALUE_OFFSET_(VALUE_AFTER_TIME),
; 4207    5212    2                [SJC$_ALIGNMENT_PAGES]=           VALUE_OFFSET_(VALUE_ALIGNMENT_PAGES),
; 4208    5213    2                [SJC$_BASE_PRIORITY]=             VALUE_OFFSET_(VALUE_BASE_PRIORITY),
; 4209    5214    2                [SJC$_BATCH_INPUT]=               VALUE_OFFSET_(VALUE_BATCH_INPUT),
; 4210    5215    2                [SJC$_BATCH_OUTPUT]=              VALUE_OFFSET_(VALUE_BATCH_OUTPUT),
; 4211    5216    2                [SJC$_BUFFER_COUNT]=              VALUE_OFFSET_(VALUE_BUFFER_COUNT),
; 4212    5217    2                [SJC$_CHARACTERISTIC_NAME]=       VALUE_OFFSET_(VALUE_CHARACTERISTIC_NAME),
; 4213    5218    2                [SJC$_CHARACTERISTIC_NUMBER]=     VALUE_OFFSET_(VALUE_CHARACTERISTIC_NUMBER),
; 4214    5219    2                [SJC$_CHECKPOINT_DATA]=           VALUE_OFFSET_(VALUE_CHECKPOINT_DATA),
; 4215    5220    2                [SJC$_CLI]=                       VALUE_OFFSET_(VALUE_CLI),
; 4216    5221    2                [SJC$_CPU_DEFAULT]=               VALUE_OFFSET_(VALUE_CPU_DEFAULT),
; 4217    5222    2                [SJC$_CPU_LIMIT]=                 VALUE_OFFSET_(VALUE_CPU_LIMIT),
; 4218    5223    2                [SJC$_DESTINATION_QUEUE]=         VALUE_OFFSET_(VALUE_DESTINATION_QUEUE),
; 4219    5224    2                [SJC$_DEVICE_NAME]=               VALUE_OFFSET_(VALUE_DEVICE_NAME),
; 4220    5225    2                [SJC$_ENTRY_NUMBER]=              VALUE_OFFSET_(VALUE_ENTRY_NUMBER),
; 4221    5226    2                [SJC$_ENTRY_NUMBER_OUTPUT]=       VALUE_OFFSET_(VALUE_ENTRY_NUMBER_OUTPUT),
; 4222    5227    2                [SJC$_EXTEND_QUANTITY]=           VALUE_OFFSET_(VALUE_EXTEND_QUANTITY),
; 4223    5228    2                [SJC$_FILE_COPIES]=               VALUE_OFFSET_(VALUE_FILE_COPIES),
; 4224    5229    2                [SJC$_FILE_IDENTIFICATION]=       VALUE_OFFSET_(VALUE_FILE_IDENTIFICATION),
; 4225    5230    2                [SJC$_FILE_SETUP_MODULES]=        VALUE_OFFSET_(VALUE_FILE_SETUP_MODULES),
; 4226    5231    2                [SJC$_FIRST_PAGE]=                VALUE_OFFSET_(VALUE_FIRST_PAGE),
; 4227    5232    2                [SJC$_FORM_DESCRIPTION]=          VALUE_OFFSET_(VALUE_FORM_DESCRIPTION),
; 4228    5233    2                [SJC$_FORM_LENGTH]=               VALUE_OFFSET_(VALUE_FORM_LENGTH),
; 4229    5234    2                [SJC$_FORM_MARGIN_BOTTOM]=        VALUE_OFFSET_(VALUE_FORM_MARGIN_BOTTOM),
; 4230    5235    2                [SJC$_FORM_MARGIN_LEFT]=          VALUE_OFFSET_(VALUE_FORM_MARGIN_LEFT),
; 4231    5236    2                [SJC$_FORM_MARGIN_RIGHT]=         VALUE_OFFSET_(VALUE_FORM_MARGIN_RIGHT),
; 4232    5237    2                [SJC$_FORM_MARGIN_TOP]=           VALUE_OFFSET_(VALUE_FORM_MARGIN_TOP),
; 4233    5238    2                [SJC$_FORM_NAME]=                 VALUE_OFFSET_(VALUE_FORM_NAME),
; 4234    5239    2                [SJC$_FORM_NUMBER]=               VALUE_OFFSET_(VALUE_FORM_NUMBER),
; 4235    5240    2                [SJC$_FORM_SETUP_MODULES]=        VALUE_OFFSET_(VALUE_FORM_SETUP_MODULES),
; 4236    5241    2                [SJC$_FORM_STOCK]=                VALUE_OFFSET_(VALUE_FORM_STOCK),
; 4237    5242    2                [SJC$_FORM_WIDTH]=                VALUE_OFFSET_(VALUE_FORM_WIDTH),
; 4238    5243    2                [SJC$_GENERIC_TARGET]=            VALUE_OFFSET_(VALUE_GENERIC_TARGET),
; 4239    5244    2                [SJC$_JOB_COPIES]=                VALUE_OFFSET_(VALUE_JOB_COPIES),
; 4240    5245    2                [SJC$_JOB_LIMIT]=                 VALUE_OFFSET_(VALUE_JOB_LIMIT),
; 4241    5246    2                [SJC$_JOB_NAME]=                  VALUE_OFFSET_(VALUE_JOB_NAME),
; 4242    5247    2                [SJC$_JOB_RESET_MODULES]=         VALUE_OFFSET_(VALUE_JOB_RESET_MODULES),
; 4243    5248    2                [SJC$_JOB_SIZE_MAXIMUM]=          VALUE_OFFSET_(VALUE_JOB_SIZE_MAXIMUM),
; 4244    5249    2                [SJC$_JOB_SIZE_MINIMUM]=          VALUE_OFFSET_(VALUE_JOB_SIZE_MINIMUM),
; 4245    5250    2                [SJC$_JOB_STATUS_OUTPUT]=         VALUE_OFFSET_(VALUE_JOB_STATUS_OUTPUT),
; 4246    5251    2                [SJC$_LAST_PAGE]=                 VALUE_OFFSET_(VALUE_LAST_PAGE);
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SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

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: 4247    5252   2                      [SJC$_LIBRARY_SPECIFICATION]=      VALUE_OFFSET_(VALUE_LIBRARY_SPECIFICATION),
: 4248    5253   2                      [SJC$_LOG_QUEUE]=                  VALUE_OFFSET_(VALUE_LOG_QUEUE),
: 4249    5254   2                      [SJC$_LOG_SPECIFICATION]=          VALUE_OFFSET_(VALUE_LOG_SPECIFICATION),
: 4250    5255   2                      [SJC$_NOTE]=                       VALUE_OFFSET_(VALUE_NOTE),
: 4251    5256   2                      [SJC$_OPERATOR_REQUEST]=           VALUE_OFFSET_(VALUE_OPERATOR_REQUEST),
: 4252    5257   2                      [SJC$_OWNER_UIC]=                  VALUE_OFFSET_(VALUE_OWNER_UIC),
: 4253    5258   2                      [SJC$_PAGE_SETUP_MODULES]=         VALUE_OFFSET_(VALUE_PAGE_SETUP_MODULES),
: 4254    5259   2                      [SJC$_PARAMETER_1]=                VALUE_OFFSET_(VALUE_PARAMETER_1),
: 4255    5260   2                      [SJC$_PARAMETER_2]=                VALUE_OFFSET_(VALUE_PARAMETER_2),
: 4256    5261   2                      [SJC$_PARAMETER_3]=                VALUE_OFFSET_(VALUE_PARAMETER_3),
: 4257    5262   2                      [SJC$_PARAMETER_4]=                VALUE_OFFSET_(VALUE_PARAMETER_4),
: 4258    5263   2                      [SJC$_PARAMETER_5]=                VALUE_OFFSET_(VALUE_PARAMETER_5),
: 4259    5264   2                      [SJC$_PARAMETER_6]=                VALUE_OFFSET_(VALUE_PARAMETER_6),
: 4260    5265   2                      [SJC$_PARAMETER_7]=                VALUE_OFFSET_(VALUE_PARAMETER_7),
: 4261    5266   2                      [SJC$_PARAMETER_8]=                VALUE_OFFSET_(VALUE_PARAMETER_8),
: 4262    5267   2                      [SJC$_PRIORITY]=                   VALUE_OFFSET_(VALUE_PRIORITY),
: 4263    5268   2                      [SJC$_PROCESSOR]=                  VALUE_OFFSET_(VALUE_PROCESSOR),
: 4264    5269   2                      [SJC$_PROTECTION]=                 VALUE_OFFSET_(VALUE_PROTECTION),
: 4265    5270   2                      [SJC$_QUEUE]=                      VALUE_OFFSET_(VALUE_QUEUE),
: 4266    5271   2                      [SJC$_QUEUE_FILE_SPECIFICATION]=   VALUE_OFFSET_(VALUE_QUEUE_FILE_SPECIFICATION),
: 4267    5272   2                      [SJC$_RELATIVE_PAGE]=              VALUE_OFFSET_(VALUE_RELATIVE_PAGE),
: 4268    5273   2                      [SJC$_RESERVED_INPUT_1]=           VALUE_OFFSET_(VALUE_RESERVED_INPUT_1),
: 4269    5274   2                      [SJC$_RESERVED_INPUT_2]=           VALUE_OFFSET_(VALUE_RESERVED_INPUT_2),
: 4270    5275   2                      [SJC$_RESERVED_INPUT_3]=           VALUE_OFFSET_(VALUE_RESERVED_INPUT_3),
: 4271    5276   2                      [SJC$_RESERVED_INPUT_4]=           VALUE_OFFSET_(VALUE_RESERVED_INPUT_4),
: 4272    5277   2                      [SJC$_RESERVED_OUTPUT_1]=          VALUE_OFFSET_(VALUE_RESERVED_OUTPUT_1),
: 4273    5278   2                      [SJC$_RESERVED_OUTPUT_2]=          VALUE_OFFSET_(VALUE_RESERVED_OUTPUT_2),
: 4274    5279   2                      [SJC$_SCSNODE_NAME]=               VALUE_OFFSET_(VALUE_SCSNODE_NAME),
: 4275    5280   2                      [SJC$_SEARCH_STRING]=              VALUE_OFFSET_(VALUE_SEARCH_STRING),
: 4276    5281   2                      [SJC$_WSDEFAULT]=                  VALUE_OFFSET_(VALUE_WSDEFAULT),
: 4277    5282   2                      [SJC$_WSEXTENT]=                   VALUE_OFFSET_(VALUE_WSEXTENT),
: 4278    5283   2                      [SJC$_WSQUOTA]=                    VALUE_OFFSET_(VALUE_WSQUOTA));
: 4279    5284   2
: 4280    5285   2
: 4281    5286   2 LOCAL
: 4282    5287   2          VALUE_STORAGE:  REF BBLOCK;       ! Pointer to internal storage area
: 4283    5288   2
: 4284    5289   2
: 4285    5290   2 IF
: 4286    5291   3      BEGIN
: 4287    5292   3      IF .REQUIRED_VALUE_SIZE[.CODE] EQL 0
: 4288    5293   3      THEN
: 4289    5294   3          FALSE
: 4290    5295   3      ELSE IF .REQUIRED_VALUE_SIZE[.CODE] LSS 0
: 4291    5296   3      THEN
: 4292    5297   3          .VALUE_SIZE GTRU - .REQUIRED_VALUE_SIZE[.CODE]
: 4293    5298   3      ELSE
: 4294    5299   3          .VALUE_SIZE NEQ .REQUIRED_VALUE_SIZE[.CODE]
: 4295    5300   3      END
: 4296    5301   2 THEN
: 4297    5302   2      RETURN JBC$_INVPARLEN;
: 4298    5303   2
: 4299    5304   2
: 4300    5305   2 VALUE_STORAGE = VALUE_STORAGE_BASE + .VALUE_STORAGE_OFFSET[.CODE];
: 4301    5306   2
: 4302    5307   2
: 4303    5308   2 CASE .VALUE_STORAGE_CASE[.CODE] FROM K_ACCOUNTING_TYPES TO K_VALUE_1_TO_65535 OF
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; 4304    5309    2    SET
; 4305    5310    2
; 4306    5311    2
; 4307    5312    2    [K_ACCOUNTING_TYPES]:
; 4308    5313    2        BEGIN
; 4309    5314    3        IF .VALUE_ADDRESS[SJC$V_ACCT_UNUSED] NEQ 0
; 4310    5315    3        THEN
; 4311    5316    3            RETURN JBC$_INVPARVAL;
; 4312    5317    3
; 4313    5318    3        VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
; 4314    5319    2        END;
; 4315    5320    2
; 4316    5321    2
; 4317    5322    2    [K_ACCOUNT_NAME]:
; 4318    5323    2        BEGIN
; 4319    5324    3        IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_CMKRNL]
; 4320    5325    3        THEN
; 4321    5326    3            RETURN JBC$_NOCMKRNL;
; 4322    5327    3
; 4323    5328    3        CH$COPY(.VALUE_SIZE, .VALUE_ADDRESS, %C' ', ACM$S_ACCOUNT, MBX[ACM$T_ACCOUNT]);
; 4324    5329    2        END;
; 4325    5330    2
; 4326    5331    2
; 4327    5332    2    [K_AFTER_TIME]:
; 4328    5333    2        BEGIN
; 4329    5334    3        IF .VALUE_ADDRESS[4,31,1,0]
; 4330    5335    3        THEN
; 4331    5336    3            SUBM(?, .VALUE_ADDRESS, CUR_TIME, .VALUE_STORAGE)
; 4332    5337    3        ELSE
; 4333    5338    4            BEGIN
; 4334    5339    4            VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
; 4335    5340    4            VALUE_STORAGE[4,0,32,0] = .VALUE_ADDRESS[4,0,32,0];
; 4336    5341    3            END;
; 4337    5342    2        END;
; 4338    5343    2
; 4339    5344    2
; 4340    5345    2    [K_ALIGNMENT_PAGES]:
; 4341    5346    2        BEGIN
; 4342    5347    3        IF .VALUE_ADDRESS[0,0,32,0] EQL 0
; 4343    5348    3        OR .VALUE_ADDRESS[0,0,32,0] GTRU 20
; 4344    5349    3        THEN
; 4345    5350    3            RETURN JBC$_INVPARVAL;
; 4346    5351    3
; 4347    5352    3        VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
; 4348    5353    2        END;
; 4349    5354    2
; 4350    5355    2
; 4351    5356    2    [K_BASE_PRIORITY]:
; 4352    5357    2        BEGIN
; 4353    5358    3        IF .VALUE_ADDRESS[0,0,32,0] GTRU 15
; 4354    5359    3        THEN
; 4355    5360    3            RETURN JBC$_INVPARVAL;
; 4356    5361    3
; 4357    5362    3        VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
; 4358    5363    3
; 4359    5364    3        IF .VALUE_ADDRESS[0,0,8,0] GTRU .MBX[ACM$B_PROCPRI]
; 4360    5365    3        AND NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_ALTPRI]
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4361    5366   3              AND NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
4362    5367   3              THEN
4363    5368   3                  VALUE_STORAGE[0,0,8,0] = .MBX[ACM$B_PROCPRI];
4364    5369   2              END;
4365    5370   2
4366    5371
4367    5372   2          [K_BUFFER_COUNT]:
4368    5373   3              BEGIN
4369    5374   3              IF  .VALUE_ADDRESS[0,0,32,0] GTRU 127
4370    5375   3              THEN
4371    5376   3                  RETURN JBC$_INVPARVAL;
4372    5377   3
4373    5378   3              VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
4374    5379   2              END;
4375    5380   2
4376    5381   2
4377    5382   2          [K_CHARACTERISTIC_NAME]:
4378    5383   3              BEGIN
4379    5384   3              IF NOT VALIDATE_OBJECT_NAME(.VALUE_SIZE, .VALUE_ADDRESS, .VALUE_STORAGE)
4380    5385   3              THEN
4381    5386   3                  RETURN JBC$_INVCHANAM;
4382    5387   3
4383    5388   3              IF .MBX[MSG_W_TYPE] NEQ MSG$_SNDJBC
4384    5389   4              OR (.MBX[ACM$Q_FUNC] NEQ SJC$_DEFINE_CHARACTERISTIC
4385    5390   4                  AND .MBX[ACM$W_FUNC] NEQ SJC$_DELETE_CHARACTERISTIC)
4386    5391   3              THEN
4387    5392   4                  BEGIN
4388    5393   4                  LOCAL
4389    5394   4                      VALUE;
4390    5395   4
4391    5396   4                  IF NOT FIND_CHARACTERISTIC(.VALUE_STORAGE; VALUE)
4392    5397   4                  THEN
4393    5398   4                      RETURN JBC$_NOSUCHCHAR;
4394    5399   4
4395    5400   4                  VALUE_CHARACTERISTICS[.VALUE] = TRUE;
4396    5401   3                  END;
4397    5402   2              END;
4398    5403   2
4399    5404   2
4400    5405   2          [K_CHARACTERISTIC_NUMBER]:
4401    5406   3              BEGIN
4402    5407   3              IF  .VALUE_ADDRESS[0,0,32,0] GTRU 127
4403    5408   3              THEN
4404    5409   3                  RETURN JBC$_INVPARVAL;
4405    5410   3
4406    5411   3              VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
4407    5412   3              VALUE_CHARACTERISTICS[.VALUE_ADDRESS[0,0,32,0]] = TRUE;
4408    5413   2              END;
4409    5414   2
4410    5415   2
4411    5416   2          [K_DESTINATION_QUEUE_NAME]:
4412    5417   3              BEGIN
4413    5418   3              LOCAL
4414    5419   3                  SDSC:                   BBLOCK[SDSC_K_LENGTH];
4415    5420   3
4416    5421   3              IF NOT VALIDATE_OBJECT_NAME(.VALUE_SIZE, .VALUE_ADDRESS, SDSC)
4417    5422   3              THEN
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: 4418   5423  3                    RETURN JBCS_INVDSTQUE;
: 4419   5424
: 4420   5425  3            IF NOT FIND_QUEUE(SDSC;
: 4421   5426                    VALUE_STORAGE[0,0,32,0], VALUE_STORAGE[4,0,32,0])
: 4422   5427             THEN
: 4423   5428  3                    RETURN JBCS_NODSTQUE;
: 4424   5429  2            END;
: 4425   5430  2
: 4426   5431  3
: 4427   5432  3    [K_FILE_IDENTIFICATION]:
: 4428   5433  3        BEGIN
: 4429   5434  3        LOCAL
: 4430   5435  3            L;
: 4431   5436  3
: 4432   5437  3        CH$MOVE(
: 4433   5438  3            %ALLOCATION(VALUE_FILE_IDENTIFICATION),
: 4434   5439  3            VALUE_ADDRESS[0,0,0,0],
: 4435   5440  3            VALUE_FILE_IDENTIFICATION);
: 4436   5441  3        L = .VALUE_ADDRESS[36,0,16,0];
: 4437   5442  3        IF .L GTRU SQRSS_FILE_SPECIFICATION-1 THEN L = SURSS_FILE_SPECIFICATION-1;
: 4438   5443  3        VALUE_FILE_SPECIFICATION[SDSC_W_LENGTH] = .L;
: 4439   5444  3        VALUE_FILE_SPECIFICATION[SDSC_A_POINTER] = VALUE_ADDRESS[38,0,0,0];
: 4440   5445  2        END;
: 4441   5446  2
: 4442   5447  2
: 4443   5448  2    [K_FORM_NAME]:
: 4444   5449  3        BEGIN
: 4445   5450  3        IF NOT VALIDATE_OBJECT_NAME(.VALUE_SIZE, .VALUE_ADDRESS, .VALUE_STORAGE)
: 4446   5451  3        THEN
: 4447   5452  3            RETURN JBCS_INVFORNAM;
: 4448   5453  3
: 4449   5454  3        IF .MBX[MSG_W_TYPE] NEQ MSGS_SNDJBC
: 4450   5455  4        OR (.MBX[ACMSQ_FUNC] NEQ SJCS_DEFINE_FORM
: 4451   5456  4            AND .MBX[ACMSW_FUNC] NEQ SJCS_DELETE_FORM)
: 4452   5457  3        THEN
: 4453   5458  3            IF NOT FIND_FORM_NAME(
: 4454   5459  3                .VALUE_STORAGE;
: 4455   5460  3                VALUE_FORM[0], VALUE_FORM[1])
: 4456   5461  3            THEN
: 4457   5462  3                RETURN JBCS_NOSUCHFORM;
: 4458   5463  2        END;
: 4459   5464  2
: 4460   5465  2
: 4461   5466  2    [K_FORM_NUMBER]:
: 4462   :67          BEGIN
: 4463   5468  3        VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
: 4464   5469  3
: 4465   5470  3        IF .MBX[MSG_W_TYPE] NEQ MSGS_SNDJBC
: 4466   5471  3        OR .MBX[ACMSW_FUNC] NEQ SJCS_DEFINE_FORM
: 4467   5472  3        THEN
: 4468   5473  3            IF NOT FIND_FORM_NUMBER(
: 4469   5474  3                .VALUE_STORAGE[0,0,32,0];
: 4470   5475  3                VALUE_FORM[0], VALUE_FORM[1])
: 4471   5476  3            THEN
: 4472   5477  3                RETURN JBCS_NOSUCHFORM;
: 4473   5478  2        END;
: 4474   5479  2
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: 4475    5480  2         [K_GENERIC_TARGET]:
: 4476    5481  2             BEGIN
: 4477    5482  2             LOCAL
: 4478    5483  3                 SDSC:                   BBLOCK[SDSC_K_LENGTH];
: 4479    5484  3
: 4480    5485  3             IF .VALUE_STORAGE[0,0,32,0] GEQU JBC$K_MAXGENTGT
: 4481    5486  3             THEN
: 4482    5487  3                 RETURN JBC$_INVPARLEN;
: 4483    5488  3
: 4484    5489  3             IF NOT VALIDATE_OBJECT_NAME(.VALUE_SIZE, .VALUE_ADDRESS, SDSC)
: 4485    5490  3             THEN
: 4486    5491  3                 RETURN JBC$_INVDSTQUE;
: 4487    5492  3
: 4488    5493  3             IF NOT FIND_QUEUE(SDSC,
: 4489    5494  3                 VALUE_STORAGE[4+8*.VALUE_STORAGE[0,0,32,0],0,32,0],
: 4490    5495  3                 VALUE_STORAGE[8+8*.VALUE_STORAGE[0,0,32,0],0,32,0])
: 4491    5496  3             THEN
: 4492    5497  3                 RETURN JBC$_NODSTQUE;
: 4493    5498  3
: 4494    5499  3             VALUE_STORAGE[0,0,32,0] = .VALUE_STORAGE[0,0,32,0] + 1;
: 4495    5500  3             END;
: 4496    5501  2
: 4497    5502  2
: 4498    5503  2
: 4499    5504  2         [K_OUTPUT_ITEM]:
: 4500    5505  2             BEGIN
: 4501    5506  3             VALUE_STORAGE[ODSC_W_LENGTH] = .VALUE_SIZE;
: 4502    5507  3             VALUE_STORAGE[ODSC_A_POINTER] = .VALUE_ADDRESS[0,0,32,0];
: 4503    5508  3             VALUE_STORAGE[ODSC_A_LENPOINTER] = .VALUE_ADDRESS[4,0,32,0];
: 4504    5509  2             END;
: 4505    5510  2
: 4506    5511  2
: 4507    5512  2         [K_OWNERSHIP]:
: 4508    5513  2             BEGIN
: 4509    5514  3             IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_OPER]
: 4510    5515  3             THEN
: 4511    5516  3                 RETURN JBC$_NOOPER;
: 4512    5517  3
: 4513    5518  3             VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
: 4514    5519  2             END;
: 4515    5520  2
: 4516    5521  2
: 4517    5522  2         [K_PRIORITY]:
: 4518    5523  2             BEGIN
: 4519    5524  3             LOCAL
: 4520    5525  3                 MAXPRI;
: 4521    5526  3
: 4522    5527  3             IF .VALUE_ADDRESS[1,0,24,0] NEQ 0
: 4523    5528  3             THEN
: 4524    5529  3                 RETURN JBC$_INVPARVAL;
: 4525    5530  3
: 4526    5531  3             VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
: 4527    5532  3
: 4528    5533  3             MAXPRI = .SYS$GB_MAXQUEPRI;
: 4529    5534  3             IF .MAXPRI EQL 0 THEN MAXPRI = .MBX[ACM$B_PROCPRI];
: 4530    5535  3             IF .VALUE_ADDRESS[0,0,8,0] GTRU .MAXPRI
: 4531    5536  3             AND NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_ALTPRI]
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 4532    5537   3            AND NOT .BBLOCKL/ 3X[ACM$Q_PRVMSK], PRV$V_OPER]
 4533    5538   3            THEN
 4534    5539   3                VALUE_STORAGE[0,0,8,0] = .MAXPRI;
 4535    5540   2            END;
 4536    5541   2
 4537    5542   2
 4538    5543   2        [K_QUEUE_NAME]:
 4539    5544   3            BEGIN
 4540    5545   3            IF NOT VALIDATE_OBJECT_NAME(.VALUE_SIZE, .VALUE_ADDRESS, .VALUE_STORAGE)
 4541    5546   3            THEN
 4542    5547   3                RETURN JBC$_INVQUENAM;
 4543    5548   2            END;
 4544    5549   2
 4545    5550   2
 4546    5551   2        [K_STRING]:
 4547    5552   3            BEGIN
 4548    5553   3            VALUE_STORAGE[SDSC_W_LENGTH] = .VALUE_SIZE;
 4549    5554   3            VALUE_STORAGE[SDSC_A_POINTER] = .VALUE_ADDRESS;
 4550    5555   2            END;
 4551    5556   2
 4552    5557   2
 4553    5558   2        [K_UIC]:
 4554    5559   3            BEGIN
 4555    5560   3            IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_CMKRNL]
 4556    5561   3            THEN
 4557    5562   3                RETURN JBC$_NOCMKRNL;
 4558    5563   3
 4559    5564   3            CH$MOVE(.VALUE_SIZE, .VALUE_ADDRESS, MBX[ACM$L_UIC]);
 4560    5565   2            END;
 4561    5566   2
 4562    5567   2
 4563    5568   2        [K_USERNAME]:
 4564    5569   3            BEGIN
 4565    5570   3            IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_CMKRNL]
 4566    5571   3            THEN
 4567    5572   3                RETURN JBC$_NOCMKRNL;
 4568    5573   3
 4569    5574   3            CH$COPY(.VALUE_SIZE, .VALUE_ADDRESS, %C' ', ACM$S_USERNAME, MBX[ACM$T_USERNAME]);
 4570    5575   2            END;
 4571    5576   2
 4572    5577   2
 4573    5578   2        [K_USER_IDENTIFICATION]:
 4574    5579   3            BEGIN
 4575    5580   3            IF NOT .BBLOCK[MBX[ACM$Q_PRVMSK], PRV$V_CMKRNL]
 4576    5581   3            THEN
 4577    5582   3                RETURN JBC$_NOCMKRNL;
 4578    5583   3
 4579    5584   3            CH$MOVE(.VALUE_SIZE, .VALUE_ADDRESS, MBX[ACM$L_UIC]);
 4580    5585   2            END;
 4581    5586   2
 4582    5587   2
 4583    5588   2        [K_VALUE]:
 4584    5589   2            CH$MOVE(.VALUE_SIZE, .VALUE_ADDRESS, .VALUE_STORAGE);
 4585    5590   2
 4586    5591   2
 4587    5592   2        [K_VALUE_NOT_0]:
 4588    5593   3            BEGIN
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; 4589    5594  3         IF .VALUE_ADDRESS[0,0,32,0] EQL 0
; 4590    5595  3         THEN
; 4591    5596  3             RETURN JBC$_INVPARVAL;
; 4592    5597  3
; 4593    5598  3         VALUE_STORAGE[0,0,32,0] = .VALUE_ADDRESS[0,0,32,0];
; 4594    5599  2         END;
; 4595    5600  2
; 4596    5601  2
; 4597    5602  2     [K_VALUE_0_TO_255]:
; 4598    5603  3         BEGIN
; 4599    5604  3         IF .VALUE_ADDRESS[1,0,24,0] NEQ 0
; 4600    5605  3         THEN
; 4601    5606  3             RETURN JBC$_INVPARVAL;
; 4602    5607  3
; 4603    5608  3         VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
; 4604    5609  2         END;
; 4605    5610  2
; 4606    5611  2
; 4607    5612  2     [K_VALUE_1_TO_255]:
; 4608    5613  3         BEGIN
; 4609    5614  3         IF .VALUE_ADDRESS[0,0,32,0] EQL 0
; 4610    5615  3         OR .VALUE_ADDRESS[1,0,24,0] NEQ 0
; 4611    5616  3         THEN
; 4612    5617  3             RETURN JBC$_INVPARVAL;
; 4613    5618  3
; 4614    5619  3         VALUE_STORAGE[0,0,8,0] = .VALUE_ADDRESS[0,0,8,0];
; 4615    5620  2         END;
; 4616    5621  2
; 4617    5622  2
; 4618    5623  2     [K_VALUE_0_TO_65535]:
; 4619    5624  3         BEGIN
; 4620    5625  3         IF .VALUE_ADDRESS[2,0,16,0] NEQ 0
; 4621    5626  3         THEN
; 4622    5627  3             RETURN JBC$_INVPARVAL;
; 4623    5628  3
; 4624    5629  3         VALUE_STORAGE[0,0,16,0] = .VALUE_ADDRESS[0,0,16,0];
; 4625    5630  2         END;
; 4626    5631  2
; 4627    5632  2
; 4628    5633  2     [K_VALUE_1_TO_65535]:
; 4629    5634  3         BEGIN
; 4630    5635  3         IF .VALUE_ADDRESS[0,0,32,0] EQL 0
; 4631    5636  3         OR .VALUE_ADDRESS[2,0,16,0] NEQ 0
; 4632    5637  3         THEN
; 4633    5638  3             RETURN JBC$_INVPARVAL;
; 4634    5639  3
; 4635    5640  3         VALUE_STORAGE[0,0,16,0] = .VALUE_ADDRESS[0,0,16,0];
; 4636    5641  2         END;
; 4637    5642  2
; 4638    5643  2
; 4639    5644  2     TES;
; 4640    5645  2
; 4641    5646  2
; 4642    5647  2 ITEM_PRESENT[.CODE] = TRUE;
; 4643    5648  2 SS$_NORMAL
; 4644    5649  1 END;
```

```
                                      01B7A          .BLKB    2
                            00#  01B7C REQUIRED_VALUE_SIZE:
                                                     .BYTE    0[2]
              0008  0004  FF01  01B7E                .WORD    -255, 4, 8
                            00#  01B84                .BYTE    0[4]
                    0004  0004  01B88                .WORD    4, 4
                            00#  01B8C                .BYTE    0[4]
        0004  0000  0000  0000  01B90                .WORD    0, 0, 0, 4
                            00#  01B98                .BYTE    0[2]
                          FF01  01B9A                .WORD    -255
                            00#  01B9C                .BYTE    0[2]
                          FFD9  01B9E                .WORD    -39
                            00#  01BA0                .BYTE    0[2]
                          0004  01BA2                .WORD    4
                            00#  01BA4                .BYTE    0[2]
                          0004  01BA6                .WORD    4
                            00#  01BA8                .BYTE    0[8]
                    FFE1  0000  01BB0                .WORD    0, -31
                            00#  01BB4                .BYTE    C[4]
                    0004  0004  01BB8                .WORD    4, 4
                            00#  01BBC                .BYTE    0[6]
                          0004  01BC2                .WORD    4
                            00#  01BC4                .BYTE    0[6]
                    0000  0000  01BCA                .WORD    0, 0
                            00#  01BCE                .BYTE    0[2]
                          FF01  01BD0                .WORD    -255
                            00#  01BD2                .BYTE    0[6]
                          0004  01BD8                .WORD    4
                            00#  01BDA                .BYTE    0[2]
0000  0004  0000  0004  0004  0004  0004  0004  FF01  01BDC    .WORD    -255, 4, 4, 4, 4, 4, 0, 4, 0
                            00#  01BEE                .BYTE    0[6]
                          0000  01BF4                .WORD    0
                            00#  01BF6                .BYTE    0[4]
                          0004  01BFA                .WORD    4
                            00#  01BFC                .BYTE    0[12]
                          0000  01C08                .WORD    0
                            00#  01C0A                .BYTE    0[8]
                          0004  01C12                .WORD    4
                            00#  01C14                .BYTE    0[4]
                    0000  FFD9  0004  01C18          .WORD    4, -39, 0
                            00#  01C1E                .BYTE    0[2]
                          0004  01C20                .WORD    4
                            00#  01C22                .BYTE    0[2]
                          0004  01C24                .WORD    4
                            00#  01C26                .BYTE    0[6]
                          0000  01C2C                .WORD    C
                            00#  01C2E                .BYTE    0[4]
                          0004  01C32                .WORD    4
                            00#  01C34                .BYTE    0[2]
                          FFD9  01C36                .WORD    -39
                            00#  01C38                .BYTE    0[6]
                    0000  0000  01C3E                .WORD    0, 0
                            00#  01C42                .BYTE    0[14]
                          0000  01C50                .WORD    0
                            00#  01C52                .BYTE    0[6]
```

```
                                        0000  01C58        .WORD    0
                                         00#  01C5A        .BYTE    0[2]
                                        0004  01C5C        .WORD    4
                                         00#  01C5E        .BYTE    0[4]
                                        0000  01C62        .WORD    0
                                         00#  01C64        .BYTE    0[6]
      FF01  FF01  FF01  FF01  FF01  FF01  FF01  FF01  01C6A  .WORD  -255, -255, -255, -255, -255, -255, -255, -
                                                                    -255
                                         00#  01C7A        .BYTE    0[6]
                                   FFD9  0004  01C80        .WORD    4, -39
                                         00#  01C84        .BYTE    0[2]
                       0004  FF01  0000  0004  01C86        .WORD    4, 0, -255, 4
                                         00#  01C8E        .BYTE    0[12]
                                   FFC1  0006  01C9A        .WORD    6, -63
                                         00#  01C9E        .BYTE    0[10]
                                   0004  0019  01CA8        .WORD    25, 4
                                         00#  01CAC        .BYTE    0[2]
                                   0004        01CAE        .WORD    4
                                         00#  01CB0        .BYTE    0[2]
                                   0004        01CB2        .WORD    4
                                         00#  01CB4        .BYTE    0[2]
            0004  0004  FFF4  0004  FFF8  01CB6        .WORD    -8, 4, -12, 4, 4
                                         00#  01CC0        .BYTE    0[8]
      0000  0000  FF01  0004  0004  0004  01CC8        .WORD    4, 4, 4, -255, 0, 0
                                   00    01CD4  VALUE_STORAGE_CASE:
                                                             .BYTE    0
                             02    00    11    01CD5        .BYTE    17, 0, 2
                                         00#  01CD8        .BYTE    0[2]
                                   04    03    01CDA        .BYTE    3, 4
                                         00#  01CDC        .BYTE    0[2]
                       07    06    0D    11    01CDE        .BYTE    17, 13, 6, 7
                                         00    01CE2        .BYTE    0
                                         11    01CE3        .BYTE    17
                                         00    01CE4        .BYTE    0
                                         11    01CE5        .BYTE    17
                                         00    01CE6        .BYTE    0
                                         15    01CE7        .BYTE    21
                                         00    01CE8        .BYTE    0
                                         15    01CE9        .BYTE    21
                                         00#  01CEA        .BYTE    0[4]
                                   11    08    01CEE        .BYTE    8, 17
                                         00#  01CF0        .BYTE    0[2]
                                   0D    15    01CF2        .BYTE    21, 13
                                         00#  01CF4        .BYTE    0[3]
                                         18    01CF7        .BYTE    24
                                         00#  01CF8        .BYTE    0[3]
                                   11    09    01CFB        .BYTE    9, 17
                                         00    01CFD        .BYTE    0
                                         11    01CFE        .BYTE    17
                                         00#  01CFF        .BYTE    0[3]
                                         16    01D02        .BYTE    22
                                         00    01D03        .BYTE    0
      11  0B  0A  19  17  19  17  18  11  01D04        .BYTE    17, 24, 23, 25, 23, 25, 10, 11, 17
                                         00#  01D0D        .BYTE    0[3]
                                         0A    01D10        .BYTE    10
                                         00#  01D11        .BYTE    0[2]
                                         1A    01D13        .BYTE    26
```

```
                                 00#  01D14         .BYTE    0[6]
                                 0C   01D1A         .BYTE    12
                                 00#  01D1B         .BYTE    0[4]
                                 18   01D1F         .BYTE    24
                                 00#  01D20         .BYTE    0[2]
                   11   11       18   01D22         .BYTE    24, 17, 17
                                 00   01D25         .BYTE    0
                                 16   01D26         .BYTE    22
                                 00   01D27         .BYTE    0
                                 16   01D28         .BYTE    22
                                 00#  01D29         .BYTE    0[3]
                                 0D   01D2C         .BYTE    13
                                 00#  01D2D         .BYTE    0[2]
                                 16   01D2F         .BYTE    22
                                 00   01D30         .BYTE    0
                                 11   01D31         .BYTE    17
                                 00#  01D32         .BYTE    0[3]
                   11       08   01D35         .BYTE    8, 17
                                 00#  01D37         .BYTE    0[7]
                                 11   01D3E         .BYTE    17
                                 00#  01D3F         .BYTE    0[3]
                                 11   01D42         .BYTE    17
                                 00   01D43         .BYTE    0
                                 0E   01D44         .BYTE    14
                                 00#  01D45         .BYTE    0[2]
                                 11   01D47         .BYTE    17
                                 00#  01D48         .BYTE    0[3]
 11  11  11  11  11  11  11      11   01D4B         .BYTE    17, 17, 17, 17, 17, 17, 17, 17
                                 00#  01D53         .BYTE    0[3]
                   11       0F   01D56         .BYTE    15, 17
                                 00   01D58         .BYTE    0
                   15   11   10   0E   01D59         .BYTE    14, 16, 17, 21
                                 00#  01D5D         .BYTE    0[6]
                   11       15   01D63         .BYTE    21, 17
                                 00#  01D65         .BYTE    0[5]
                        1A   14   01D6A         .BYTE    20, 26
                                 00   01D6C         .BYTE    0
                                 1A   01D6D         .BYTE    26
                                 00   01D6E         .BYTE    0
                                 1A   01D6F         .BYTE    26
                                 00   01D70         .BYTE    0
          19   05   13   12   01   01D71         .BYTE    1, 18, 19, 5, 25
                                 00#  01D76         .BYTE    0[4]
     0D   0D   11   15   19   17   01D7A         .BYTE    23, 25, 21, 17, 13, 13
                                 00#  01D80  VALUE_STORAGE_OFFSET:
                                          .BYTE    0[2]
               002A  0026  0020  01D82         .WORD    32, 38, 42
                                 00#  01D88         .BYTE    0[4]
                     0033  0032  01D8C         .WORD    50, 51
                                 00#  01D90         .BYTE    0[4]
     004B  0045  003A  0034  01D94         .WORD    52, 58, 69, 75
                                 00#  01D9C         .BYTE    0[2]
                           005C  01D9E         .WORD    92
                                 00#  01DA0         .BYTE    0[2]
                           0062  01DA2         .WORD    98
                                 00#  01DA4         .BYTE    0[2]
                           0068  01DA6         .WORD    104
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                                                            00#  01DA8       .BYTE   0[2]
                                                      006C  01DAA       .WORD   108
                                                            00#  01DAC       .BYTE   0[8]
                                                0078  0070  01DB4       .WORD   112, 120
                                                            00#  01DB8       .BYTE   0[4]
                                                0082  007E  01DBC       .WORD   126, 130
                                                            00#  01DC0       .BYTE   0[6]
                                                      008E  01DC6       .WORD   142
                                                            00#  01DC8       .BYTE   0[6]
                                                0083  008F  01DCE       .WORD   143, 179
                                                            00#  01DD2       .BYTE   0[10]
                                                      00BF  01DDC       .WORD   191
                                                            00#  01DDE       .BYTE   0[2]
  00E2  00D6  00D0  00CF  00CD  00CB  00CA  00C9  00C3  01DE0       .WORD   195, 201, 202, 203, 205, 207, 208, 214, -
                                                                                226
                                                            00#  01DF2       .BYTE   0[6]
                                                      00E8  01DF8       .WORD   232
                                                            00#  01DFA       .BYTE   0[4]
                                                      00EE  01DFE       .WORD   238
                                                            00#  01E00       .BYTE   0[12]
                                                      00F0  01E0C       .WORD   240
                                                            00#  01E0E       .BYTE   0[8]
                                                      04D4  01E16       .WORD   1236
                                                            00#  01E18       .BYTE   0[4]
                                                04DC  04D6  04D5  01E1C       .WORD   1237, 1238, 1244
                                                            00#  01E22       .BYTE   0[2]
                                                      04E2  01E24       .WORD   1250
                                                            00#  01E26       .BYTE   0[2]
                                                      04E6  01E28       .WORD   1254
                                                            00#  01E2A       .BYTE   0[6]
                                                      04EA  01E30       .WORD   1258
                                                            00#  01E32       .BYTE   0[4]
                                                      04F4  01E36       .WORD   1268
                                                            00#  01E38       .BYTE   0[2]
                                                      04F8  01E3A       .WORD   1272
                                                            00#  01E3C       .BYTE   0[6]
                                                0506  04FE  01E42       .WORD   1278, 1286
                                                            00#  01E46       .BYTE   0[14]
                                                      050C  01E54       .WORD   1292
                                                            00#  01E56       .BYTE   0[6]
                                                      0512  01E5C       .WORD   1298
                                                            00#  01E5E       .BYTE   0[2]
                                                      0518  01E60       .WORD   1304
                                                            00#  01E62       .BYTE   0[4]
                                                      051C  01E66       .WORD   1308
                                                            00#  01E68       .BYTE   0[6]
  054C  0546  0540  053A  0534  052E  0528  0522  01E6E       .WORD   1314, 1320, 1326, 1332, 1338, 1344, 1350, -
                                                                                1356
                                                            00#  01E7E       .BYTE   0[6]
                                                0553  0552  01E84       .WORD   1362, 1363
                                                            00#  01E88       .BYTE   0[2]
                                    0569  0563  055D  0559  01E8A       .WORD   1369, 1373, 1379, 1385
                                                            00#  01E92       .BYTE   0[12]
                                                058E  0594  01E9E       .WORD   1428, 1422
                                                            00#  01EA2       .BYTE   0[12]
                                                      059A  01EAE       .WORD   1434
                                                            00#  01EB0       .BYTE   0[2]
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SNDJBC
V04-000 $SNDACC, $SNDSMB, and $SNDJBC services   B 6
                                                        16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 145
                                                        14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (36)

SN
V0

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                                      059C  01EB2            .WORD   1436
                                       00#  01EB4            .BYTE   0[2]
                                      059E  01EB6            .WORD   1438
                                       00#  01EB8            .BYTE   0[8]
                               008C   0044  01EC0            .WORD   68, 140
                                       00#  01EC4            .BYTE   0[8]
     0584  057A  0574  0570  056E  056D  01ECC              .WORD   1389, 1390, 1392, 1396, 1402, 1412


                              OFFC  00000 PROCESS_ONE_OPTION:
                                                             .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11          ; 4967
                              5E         08  C2 00002        SUBL2   #8, SP
                              51     04  AC  D0 00005        MOVL    CODE, R1                                      ; 5292
                              50  FC96 CF41  32 00009        CVTWL   REQUIRED_VALUE_SIZE[R1], R0
                                     14  13 0000F            BEQL    3$
                                     0C  18 00011            BGEQ    2$                                            ; 5295
                                     50  CE 00013            MNEGL   R0, R0                                        ; 5297
                              50     08  AC  D1 00016        CMPL    VALUE_SIZE, R0
                                     09  1B 0001A            BLEQU   3$
                                   020F  31 0001C 1$:        BRW     36$
                              50     08  AC  D1 0001F 2$:    CMPL    VALUE_SIZE, R0                                ; 5299
                                     F7  12 00023            BNEQ    1$
                              50  00000000' EF  9E C0025 3$: MOVAB   VALUE_STORAGE_BASE, R0                        ; 5305
                              51     04  AC  D0 0002C        MOVL    CODE, R1
                              57  FE73 CF41  32 00030        CVTWL   VALUE_STORAGE_OFFSET[R1], VALUE_STORAGE
                              57         50  C0 00036        ADDL2   R0, VALUE_STORAGE
                              56     0C  AC  D0 00039        MOVL    VALUE_ADDRESS, R6                             ; 5314
                                   FDBB  CF  DF 0003D        PUSHAL  VALUE_STORAGE_CASE                            ; 5308
                              6E     04  AC  C0 00041        ADDL2   CODE, (SP)
                              00         9E  8F 00045        CASEB   @(SP)+, #0, #26
     0079       0058       0040       0036      00049 4$:    .WORD   5$-4$,-
     0104       00B6       00AA       0085      00051               7$-4$,-
     01A9       016E       0143       011D      00059               9$-4$,-
     024D       0236       022C       01D9      00061               11$-4$,-
     02B5       02CA       02AB       0293      00069               13$-4$,-
     02F5       02EC       02E5       02CA      00071               15$-4$,-
                1A         030A       02FF      00079               16$-4$,-
                                                                    21$-4$,-
                                                                    24$-4$,-
                                                                    26$-4$,-
                                                                    29$-4$,-
                                                                    32$-4$,-
                                                                    35$-4$,-
                                                                    42$-4$,-
                                                                    43$-4$,-
                                                                    45$-4$,-
                                                                    49$-4$,-
                                                                    50$-4$,-
                                                                    53$-4$,-
                                                                    52$-4$,-
                                                                    53$-4$,-
                                                                    56$-4$,-
                                                                    57$-4$,-
                                                                    60$-4$,-
                                                                    61$-4$,-
                                                                    64$-4$,-
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                                                                  65$-4$
00        66              16          0A ED 0007F 5$:    CMPZV    #10, #22, (R6), #0                    5314
                                      45 13 00084         BEQL     12$
                                   02DA 31 00086 6$:      BRW      66$                                  5316
                          50 00000000' EF D0 00089 7$:    MOVL     MBX, R0                              5324
                          03          04 A0 E8 00090      BLBS     4(R0), 8$
                                   0287 31 00094          BRW      54$
08        20              66          08 AC 2C 00097 8$:  MOVC5    VALUE_SIZE, (R6), #32, #8, 28(R0)    5328
                                      1C A0 0009D
                                      50 11 0009F         BRB      14$                                  5308
                          07          A6 95 000A1 9$:     TSTB     7(R6)                                5334
                                      17 18 000A4         BGEQ     10$
              67 00000000' EF         66 C3 000A6         SUBL3    (R6), CUR_TIME, (VALUE_STORAGE)      5336
                          04 A7 00000000' EF D0 000AE     MOVL     CUR_TIME+4, 4(VALUE_STORAGE)
                          04 A7       04 A6 D9 000B6      SBWC     4(R6), 4(VALUE_STORAGE)
                                      34 11 000BB         BRB      14$
                          67          66 7D 000BD 10$:    MOVQ     (R6), (VALUE_STORAGE)                5339
                                      2F 11 000C0         BRB      14$                                  5308
                                      66 D5 000C2 11$:    TSTL     (R6)                                 5347
                                      C0 13 000C4         BEQL     6$
                          14          66 D1 000C6         CMPL     (R6), #20                            5348
                                      BB 1A 000C9         BGTRU    6$
                                   026B 31 000CB 12$:     BRW      58$
                          0F          66 D1 000CE 13$:    CMPL     (R6), #15                            5358
                                      B3 1A 000D1         BGTRU    6$
                          67          66 90 000D3         MOVB     (R6), (VALUE_STORAGE)                5362
                          50 00000000' EF D0 000D6         MOVL     MBX, R0                             5364
                          24          A0 66 91 000DD      CMPB     (R6), 36(R0)
                                      68 1B 000E1         BLEQU    20$
          7C        05    A0          05 E0 000E3         BBS      #5, 5(R0), 23$                       5365
          77        06    A0          02 E0 000E8         BBS      #2, 6(R0), 23$                       5366
                          67    24    A0 90 000ED         MOVB     36(R0), (VALUE_STORAGE)              5368
                                      71 11 000F1 14$:    BRB      23$                                  5308
                  0000007F 8F         66 D1 000F3 15$:    CMPL     (R6), #127                           5374
                                      8A 1A 000FA         BGTRU    6$
                                   024F 31 000FC          BRW      62$
                          7E          56 7D 000FF 16$:    MOVQ     R6, -(SP)                            5384
                                08    AC DD 00102         PUSHL    VALUE_SIZE
                  00000000G EF         03 FB 00105         CALLS    #3, VALIDATE_OBJECT_NAME
                          08          50 E8 0010C         BLBS     R0, 17$
                  50 00048140 8F       D0 0010F          MOVL     #295232, R0                          5386
                                      04 00116            RET
                  50 00000000' EF      D0 00117 17$:      MOVL     MBX, R0                              5388
                          0F          60 B1 0011E         CMPW     (R0), #15
                          0C          12 00121            BNEQ     18$
                  0D        58 A0 B1  00123              CMPW     88(R0), #13                          5389
                          3B 13       00127              BEQL     23$
                  0F        58 A0 B1  00129              CMPW     88(R0), #15                          5390
                          35 13       0012D              BEQL     23$
                          57 DD       0012F 18$:          PUSHL    VALUE_STORAGE                        5396
                  00000000G EF         01 FB 00131         CALLS    #1, FIND_CHARACTERISTIC
                          08          50 E8 00138         BLBS     R0, 19$
                  50 00048150 8F       D0 0013B          MOVL     #295248, R0                          5398
                                      04 00142            RET
              69 00000000' EF         5B E2 00143 19$:    BBSS     VALUE, VALUE_CHARACTERISTICS, 28$    5400
                                      67 11 0014B 20$:    BRB      28$                                  5308
                  0000007F 8F         66 D1 0014D 21$:    CMPL     (R6), #127                           5407
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```
                                 03  1B 00154          BLEQU   22$                                              5411
                                020A  31 00156          BRW     66$
                            67   66  90 00159 22$:      MOVB    (R6), (VALUE_STORAGE)                           5411
          50 00000000' EF    66  E2 0015C          BBSS    (R6), VALUE_CHARACTERISTICS, 28$                 5412
                            4E   11 00164 23$:      BRB     28$                                             5308
                          4040 8F  BB 00166 24$:      PUSHR   #^M<R6,SP>                                      5421
                            08  AC  DD 0016A          PUSHL   VALUE_SIZE
          00000000G EF     03  FB 0016D          CALLS   #3, VALIDATE_OBJECT_NAME
                            03  50  E8 00174          BLBS    R0, 25$
                          00CD  31 00177          BRW     38$
                            5E  DD 0017A 25$:      PUSHL   SP                                              5425
          00000000G EF     01  FB 0017C          CALLS   #1, FIND_QUEUE                                   5426
                            67  5A  7D 00183          MOVQ    R10, (VALUE_STORAGE)
                            2B  50  E8 00186          BLBS    R0, 28$
                          00DD  31 00189          BRW     40$                                             5428
   00000000' EF           66  24  28 0018C 26$:      MOVC3   #36, (R6), VALUE_FILE_IDENTIFICATION          5439
                       50  24  A6  3C 00194          MOVZWL  36(R6), L                                       5441
          000000FF 8F     50  D1 00198          CMPL    L, #255                                         5442
                            04  1B 0019F          BLEQU   27$
                       50  FF  8F  9A 001A1          MCVZBL  #255, L
          00000000' EF     50  B0 001A5 27$:      MOVW    L, VALUE_FILE_SPECIFICATION                   5443
          00000000' EF     26  A6  9E 001AC          MOVAB   38(R6), VALUE_FILE_SPECIFICATION+2            5444
                          01B7  31 001B4 28$:      BRW     68$                                             5308
                            7E  56  7D 001B7 29$:      MOVQ    R6, -(SP)                                       5450
                            08  AC  DD 001BA          PUSHL   VALUE_SIZE
          00000000G EF     03  FB 001BD          CALLS   #3, VALIDATE_OBJECT_NAME
                            08  50  E8 001C4          BLBS    R0, 30$
          50 00048148 8F     D0 001C7          MOVL    #295240, R0                                     5452
                            04 001CE          RET
          50 00000000' EF     D0 001CF 30$:      MOVL    MBX, R0                                         5454
                            0F  60  B1 001D6          CMPW    (R0), #15
                            0C  12 001D9          BNEQ    31$
                       0E  58  A0  B1 001DB          CMPW    88(R0), #14                                     5455
                            D3  13 001DF          BEQL    28$
                       10  58  A0  B1 001E1          CMPW    88(R0), #16                                     5456
                            CD  13 001E5          BEQL    28$
                            57  DD 001E7 31$:      PUSHL   VALUE_STORAGE                                   5459
          00000000G EF     01  FB 001E9          CALLS   #1, FIND_FORM_NAME
                            1E  11 001F0          BRB     34$                                             5460
                            67  66  D0 001F2 32$:      MOVL    (R6), (VALUE_STORAGE)                           5468
          50 00000000' EF     D0 001F5          MOVL    MBX, R0                                         5470
                            0F  60  B1 001FC          CMPW    (R0), #15
                            06  12 001FF          BNEQ    33$
                       0E  58  A0  B1 00201          CMPW    88(R0), #14                                     5471
                            AD  13 00205          BEQL    28$
                            67  DD 00207 33$:      PUSHL   (VALUE_STORAGE)                                 5474
          00000000G EF     01  FB 00209          CALLS   #1, FIND_FORM_NUMBER
          00000000' EF     5A  7D 00210 34$:      MOVQ    R10, VALUE_FORM                                  5475
                            9A  50  E8 00217          BLBS    R0, 28$                                         5473
          50 00048158 8F     D0 0021A          MOVL    #295256, R0                                     5477
                            04 00221          RET
                            52  67  D0 00222 35$:      MOVL    (VALUE_STORAGE), R2                             5486
          0000007C 8F     52  D1 00225          CMPL    R2, #124
                            08  1F 0022C          BLSSU   37$
          50 00048090 8F     D0 0022E 36$:      MOVL    #295056, R0                                     5488
                            04 00235          RET
                          4040 8F  BB 00236 37$:      PUSHR   #^M<R6,SP>                                      5490
```

```
                        08   AC  DD 0023A        PUSHL   VALUE_SIZE
           00000000G EF 03   FB 0023D        CALLS   #3, VALIDATE_OBJECT_NAME
                        08   50  E8 00244        BLBS    R0, 39$
              50 000480C8 8F DO 00247 38$:    MOVL    #295112, R0                      : 5492
                        04   0024E           RET
                        5E   DD 0024F 39$:    PUSHL   SP                               : 5494
           00000000G EF 01   FB 00251        CALLS   #1, FIND_QUEUE                    : 5496
                     04 A742 7F 00258        PUSHAQ  4(VALUE_STORAGE)[R2]             : 5495
                        9E   5A  DO 0025C        MOVL    R10, @(SP)+
                     08 A742 7F 0025F        PUSHAQ  8(VALUE_STORAGE)[R2]             : 5496
                        9E   5B  DO 00263        MOVL    R11, @(SP)+
                        08   50  E8 00266        BLBS    R0, 41$
              50 000480C0 8F DO 00269 40$:    MOVL    #295104, R0                      : 5498
                        04   00270           RET
                        67   D6 00271 41$:    INCL    (VALUE_STORAGE)                  : 5500
                        65   11 00273        BRB     48$                              : 5308
                 67   08   AC B0 00275 42$:    MOVW    VALUE_SIZE, (VALUE_STORAGE)     : 5506
              02 A7   66   7D 00279        MOVQ    (R6), -2(VALUE_STORAGE)            : 5507
                        7D   11 0027D        BRB     51$                              : 5308
              50 00000000' EF DO 0027F 43$:    MOVL    MBX, R0                        : 5514
        03   06 A0   02   E1 00286        BBC     #2, 6(R0), 44$
                   00AB 31 0028B        BRW     58$
              50 00042894 8F DO 0028E 44$:    MOVL    #272532, R0                      : 5516
                        04   00295           RET
  00   01 A6   18   00 ED 00296 45$:    CMPZV   #0, #24, 1(R6), #0                    : 5527
                        03   13 0029C        BEQL    46$
                   00C2 31 0029E        BRW     66$
                 67   66   90 002A1 46$:    MOVB    (R6), (VALUE_STORAGE)            : 5531
              51 00000000G 00  9A 002A4        MOVZBL  SYS$GB_MAXQUEPRI, MAXPRI         : 5533
                        0B   12 002AB        BNEQ    47$                              : 5534
              50 00000000' EF DO 002AD        MOVL    MBX, R0
              51   24   A0 9A 002B4        MOVZBL  36(R0), MAXPRI
  51   66   08   00 ED 002B8 47$:    CMPZV   #0, #8, (R6), MAXPRI                  : 5535
                        7D   1B 002BD        BLEQU   59$
              50 00000000' EF DO 002BF        MOVL    MBX, R0                        : 5536
        71   05 A0   05   E0 002C6        BBS     #5, 5(R0), 59$
              50 00000000' EF DO 002CB        MOVL    MBX, R0                        : 5537
        7A   06 A0   02   E0 002D2        BBS     #2, 6(R0), 63$
                 67   51   90 002D7        MOVB    MAXPRI, (VALUE_STORAGE)          : 5539
                        75   11 002DA 48$:    BRB     63$                              : 5308
                        7E   56  7D 002DC 49$:    MOVQ    R6, -(SP)                    : 5545
                        08   AC DD 002DF        PUSHL   VALUE_SIZE
           00000000G EF 03   FB 002E2        CALLS   #3, VALIDATE_OBJECT_NAME
                        65   50  E8 002E9        BLBS    R0, 63$
              50 00048018 8F DO 002EC        MOVL    #294936, R0                      : 5547
                        04   002F3           RET
                 67   08   AC B0 002F4 50$:    MOVW    VALUE_SIZE, (VALUE_STORAGE)    : 5553
              02 A7   56   DO 002F8        MOVL    R6, 2(VALUE_STORAGE)              : 5554
                        70   11 002FC 51$:    BRB     68$                              : 5308
              50 00000000' EF DO 002FE 52$:    MOVL    MBX, R0                        : 5570
                        15   04 A0 E9 00305        BLBC    4(R0), 54$
  0C   20   66   08   AC 2C 00309        MOVC5   VALUE_SIZE, (R6), #32, #12, 16(R0)   : 5574
                        10   A0 0030F
                        5B   11 00311        BRB     68$                              : 5308
              50 00000000' EF DO 00313 53$:    MOVL    MBX, R0                        : 5580
                        08   04 A0 E8 0031A        BLBS    4(R0), 55$
              50 00042904 8F DO 0031E 54$:    MOVL    #272388, R0                      : 5582
```

98

92

```
                                              04 00325              RET
          OC  A0          66      08    AC    28 00326  55$:        MOVC3    VALUE_SIZE, (R6), 12(R0)                           5584
                                              40  11 0032C          BRB      68$                                                5308
              67          66      08    AC    28 0032E  56$:        MOVC3    VALUE_SIZE, (R6), (VALUE_STORAGE)                  5589
                                              39  11 00333          BRB      68$
                                              66  D5 00335  57$:     TSTL     (R6)                                              5594
                                              2A  13 00337          BEQL     66$
              67                              66  D0 00339  58$:     MOVL     (R6), (VALUE_STORAGE)                             5598
                                              30  11 0033C  59$:     BRB      68$                                               5308
   00     01 A6          18              00   ED 0033E  60$:        CMPZV    #0, #24, 1(R6), #0                                 5604
                                              08  13 00344          BEQL     62$
                                              1B  11 00346          BRB      66$
                                              66  D5 00348  61$:     TSTL     (R6)                                              5614
                                              17  13 0034A          BEQL     66$
                                              F0  11 0034C          BRB      60$                                               5615
              67                              66  90 0034E  62$:     MOVB     (R6), (VALUE_STORAGE)                             5619
                                              1B  11 00351  63$:     BRB      68$                                               5308
                            02          A6    B5 00353  64$:        TSTW     2(R6)                                              5625
                                              0B  12 00356          BNEQ     66$
                                              11  11 00358          BRB      67$                                               5629
                                              66  D5 0035A  65$:     TSTL     (R6)                                              5635
                                              05  13 0035C          BEQL     66$
                            02          A6    B5 0035E           TSTW     2(R6)                                                 5636
                                              08  13 00361          BEQL     67$
               50 00048110  8F    D0 00363  66$:  MOVL     #295184, R0                                                         5638
                                              04 0036A          RET
              67                              66  B0 0036B  67$:     MOVW     (R6), (VALUE_STORAGE)                             5640
       CO 00000000'  EF      04    AC    E2 0036E  68$:  BBSS     CODE, ITEM_PRESENT, 69$                                      5647
                            50          01   D0 00377  69$:  MOVL     #1, R0                                                   5649
                                              04 0037A          RET
```

; Routine Size: 891 bytes,   Routine Base: CODE + 1ED8

```
: 4646      5650  1 GLOBAL ROUTINE SNDACC_ ERVICE=
. 4647      5651  1
. 4648      5652  1 !++
. 4649      5653  1 !
. 4650      5654  1 ! FUNCTIONAL DESCRIPTION:
. 4651      5655  1 !         This routine processes the message type:
. 4652      5656  1 !                 MSG$_SNDACC              send to accounting manager
. 4653      5657  1 !         by dispatching to a request-specific routine.
. 4654      5658  1 !
. 4655      5659  1 ! INPUT PARAMETERS:
. 4656      5660  1 !         NONE
. 4657      5661  1 !
. 4658      5662  1 ! IMPLICIT INPUTS:
. 4659      5663  1 !         MBX               - Pointer to buffered mailbox message.
. 4660      5664  1 !
. 4661      5665  1 ! OUTPUT PARAMETERS:
. 4662      5666  1 !         NONE
. 4663      5667  1 !
. 4664      5668  1 ! IMPLICIT OUTPUTS:
. 4665      5669  1 !         NONE
. 4666      5670  1 !
. 4667      5671  1 ! ROUTINE VALUE:
. 4668      5672  1 !         Completion status to be returned to requestor.
. 4669      5673  1 !
. 4670      5674  1 ! SIDE EFFECTS:
. 4671      5675  1 !         NONE
. 4672      5676  1 !
. 4673      5677  1 !--
. 4674      5678  1
. 4675      5679  2 BEGIN
. 4676      5680  2 OWN
. 4677      5681  2         PROCESSING_ROUTINE:               VECTOR[MAX_SNDACC_FUNC+1]
. 4678      5682  2             PSECT(CODE) PRESET(
. 4679      5683  2                 [ACC$K_DISAACC]=          SJC_STOP_ACCOUNTING,
. 4680      5684  2                 [ACC$K_DISASEL]=          SJC_STOP_ACCOUNTING,
. 4681      5685  2                 [ACC$K_ENABACC]=          SJC_START_ACCOUNTING,
. 4682      5686  2                 [ACC$K_ENABSEL]=          SJC_START_ACCOUNTING,
. 4683      5687  2                 [ACC$K_INSMESG]=          SJC_WRITE_ACCOUNTING,
. 4684      5688  2                 [ACC$K_NEWFILE]=          SJC_START_ACCOUNTING);
. 4685      5689  2 LOCAL
. 4686      5690  2         PROC_ROUTINE;
. 4687      5691  2
. 4688      5692  2
. 4689      5693  2 ! Ensure that the message contains the request type.
. 4690      5694  2 !
. 4691      5695  2 IF .MBX[ACM$W_MSGLEN] LSSU $BYTEOFFSET(ACM$W_USERREQ) + 2
. 4692      5696  2 THEN
. 4693      5697  2     RETURN JBC$_INVMSGBUF;
. 4694      5698  2
. 4695      5699  2
. 4696      5700  2 ! Validate the request type.
. 4697      5701  2 !
. 4698      5702  2 DIAG_TRACE[1] = .MBX[ACM$W_USERREQ];     ! ***** diagnostic info *****
. 4699      5703  2 IF .MBX[ACM$W_USERREQ] LSSO MIN_SNDACC_FUNC
. 4700      5704  2 OR .MBX[ACM$W_USERREQ] GTRU MAX_SNDACC_FUNC
. 4701      5705  2 THEN
. 4702      5706  2     RETURN JBC$_INVFUNCOD;
```

```
: 4703    5707   2
: 4704    5708   2    SNDACC_COUNT[.MBX[ACM$W_USERREQ]] = SNDACC_COUNT[.MBX[ACM$W_USERREQ]] + 1;
: 4705    5709   2
: 4706    5710   2
: 4707    5711   2    ! Set up for parameter preprocessing.
: 4708    5712   2    !
: 4709    5713   2    CH$FILL(0, VALUE_STORAGE_END - VALUE_STORAGE_BASE, VALUE_STORAGE_BASE);
: 4710    5714   2    PROC_ROUTINE = .PROCESSING_ROUTINE[.MBX[ACM$Q_USERREQ]];
: 4711    5715   2
: 4712    5716   2
: 4713    5717   2    ! Preprocess the remaining parameters into static storage.
: 4714    5718   2    !
: 4715    5719   2    CASE .MBX[ACM$W_USERREQ] FROM MIN_SNDACC_FUNC TO MAX_SNDACC_FUNC OF
: 4716    5720   2        SET
: 4717    5721   2
: 4718    5722   2
: 4719    5723   2        [OUTRANGE]:
: 4720    5724   2            RETURN JBC$_INVFUNCOD;
: 4721    5725   2
: 4722    5726   2
: 4723    5727   2        [ACC$K_INSMESG]:
: 4724    5728   3            BEGIN
: 4725    5729   3            LOCAL
: 4726    5730   3                STATUS;
: 4727    5731   3
: 4728    5732   3            STATUS = PROCESS_ONE_OPTION(
: 4729    5733   3                SJC$_ACCOUNTING_MESSAGE,
: 4730    5734   3                .MBX[ACM$W_MSGLEN] - $BYTEOFFSET(ACM$T_DATA),
: 4731    5735   3                MBX[ACM$T_DATA]);
: 4732    5736   3            IF NOT .STATUS THEN RETURN .STATUS;
: 4733    5737   2            END;
: 4734    5738   2
: 4735    5739   2
: 4736    5740   2        [ACC$K_NEWFILE]:
: 4737    5741   3            BEGIN
: 4738    5742   3            ITEM_PRESENT[SJC$_NEW_VERSION] = TRUE;
: 4739    5743   2            END;
: 4740    5744   2
: 4741    5745   2
: 4742    5746   2        [ACC$K_ENABACC, ACC$K_DISAACC]:
: 4743    5747   2            0;
: 4744    5748   2
: 4745    5749   2
: 4746    5750   2        [ACC$K_ENABSEL, ACC$K_DISASEL]:
: 4747    5751   3            BEGIN
: 4748    5752   3            LOCAL
: 4749    5753   3                MASK:               BBLOCK[4],          ! Bit mask
: 4750    5754   3                CURSOR:             REF VECTOR[,BYTE];  ! Parameter cursor
: 4751    5755   3
: 4752    5756   3            ! Initialize.
: 4753    5757   3            !
: 4754    5758   3            MASK = 0;
: 4755    5759   3            CURSOR = MBX[ACM$T_DATA];
: 4756    5760   3
: 4757    5761   3
: 4758    5762   3            ! Process the user's parameter list to generate the bit mask.
: 4759    5763   3
```

```
: 4760    5764  3        !
: 4761    5765  3        WHILE .CURSOR LSSA .MBX_END DO
: 4762    5766  4            BEGIN
: 4763    5767  4            CASE .CURSOR[0] FROM 0 TO ACC$K_INSMSG OF
: 4764    5768  4                SET
: 4765    5769  4                [INRANGE, OUTRANGE]:    RETURN JBC$_INVITMCOD;
: 4766    5770  4                [0]:                    EXITLOOP;
: 4767    5771  4                [ACC$K_PRCTRM]:         MASK[SJC$V_ACCT_PROCESS] = TRUE;
: 4768    5772  4                [ACC$K_BATTRM]:         MASK[SJC$V_ACCT_BATCH] = TRUE;
: 4769    5773  4                [ACC$K_INTTRM]:         MASK[SJC$V_ACCT_INTERACTIVE] = TRUE;
: 4770    5774  4                [ACC$K_LOGTRM]:         MASK[SJC$V_ACCT_LOGIN_FAILURE] = TRUE;
: 4771    5775  4                [ACC$K_IMGTRM]:         MASK[SJC$V_ACCT_IMAGE] = TRUE;
: 4772    5776  4                [ACC$K_SUBTRM]:         MASK[SJC$V_ACCT_SUBPROCESS] = TRUE;
: 4773    5777  4                [ACC$K_DETTRM]:         MASK[SJC$V_ACCT_DETACHED] = TRUE;
: 4774    5778  4                [ACC$K_NETTRM]:         MASK[SJC$V_ACCT_NETWORK] = TRUE;
: 4775    5779  4                [ACC$K_PRTJOB]:         MASK[SJC$V_ACCT_PRINT] = TRUE;
: 4776    5780  4                [ACC$K_INSMSG]:         MASK[SJC$V_ACCT_MESSAGE] = TRUE;
: 4777    5781  4                TES;
: 4778    5782  4            CURSOR = .CURSOR + 1;
: 4779    5783  3            END;
: 4780    5784  3
: 4781    5785  3
: 4782    5786  3            VALUE_ACCOUNTING_TYPES = .MASK;
: 4783    5787  3            ITEM_PRESENT[SJC$_ACCOUNTING_TYPES] = TRUE;
: 4784    5788  2            END;
: 4785    5789  2
: 4786    5790  2
: 4787    5791  2        TES;
: 4788    5792  2
: 4789    5793  2
: 4790    5794  2  ! Dispatch to execute the request.
: 4791    5795  2
: 4792    5796  2  (.PROC_ROUTINE)()
: 4793    5797  1  END;
```

```
                                         02253              .BLKB   1
                                   00# 02254 PROCESSING ROUTINE:
                                                            .BYTE   0[4]
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02258      .ADDRESS SJC_WRITE_ACCOUNTING, -
                                                            SJC_START_ACCOUNTING, -
                                                            SJC_START_ACCOUNTING, -
                                                            SJC_STOP_ACCOUNTING, -
                                                            SJC_START_ACCOUNTING, SJC_STOP_ACCOUNTING


                                  01FC 00000    .ENTRY  SNDACC_SERVICE, Save R2,R3,R4,R5,R6,R7,R8   : 5650
                    58 00000000'  EF 9E 00002    MOVAB   VALUE_STORAGE_BASE, R8
                    57     F440   C8 D0 00009    MOVL    MBX, R7                                     : 5695
             0046   8F       FA   A7 B1 0000E    CMPW    -6(R7), #70
                    08            1E 00014       BGEQU   1$
                    50 00048100  8F D0 00016     MOVL    #295168, R0                                 : 5697
                    04            0001D          RET
                    56       44   A7 3C 0001E 1$: MOVZWL  68(R7), R6                                 : 5702
             F204   C8            56 D0 00022    MOVL    R6, DIAG_TRACE+4
```

```
                                2B  13 00027          BEQL    3$                                              : 5703
                         06     56  B1 00029          CMPW    R6, #6                                          : 5704
                                26  1A 0002C          BGTRU   3$
              F39C C846  F39D C846  DE 0002E          MOVAL   SNDACC_COUNT+1[R6], SNDACC_COUNT[R6]            : 5708
    05A0  8F       00          6E  00 2C 00037        MOVC5   #0, (SP), #0, #1440, VALUE_STORAGE_BASE         : 5713
                                68     0003E
                         52     A1 AF46 DO 0003F       MOVL    PROCESSING_ROUTINE[R6], PROC_ROUTINE           : 5714
                         01     56  AF 00044          CASEW   R6, #1, #5                                      : 5719
       00B1       00B1   002D     0014 00048 2$:      .WORD   4$-2$,-
                         0033     0033 00050                  5$-2$,-
                                                              23$-2$,-
                                                              23$-2$,-
                                                              7$-2$,-
                                                              7$-2$
              50 00048068  8F  DO 00054 3$:          MOVL    #295016, R0                                     : 5724
                                04 0005B             RET
                         46  A7 9F 0005C 4$:         PUSHAB  70(R7)                                          : 5735
                         7E  FA A7 3C 0005F          MOVZWL  -6(R7), -(SP)                                   : 5734
                         6E 00000046 8F C2 00063     SUBL2   #70, (SP)
                                01  DD 0006A         PUSHL   #1                                              : 5735
              FBF7  CF       03 FB 0006C             CALLS   #3, PROCESS_ONE_OPTION
                         05     50 E8 00071          BLBS    STATUS, 6$                                       : 5736
                                04 00074             RET
                OD  A8       01 88 00075 5$:         BISB2   #1, ITEM_PRESENT+13                              : 5742
                                7E 11 00079 6$:      BRB     23$                                             : 5719
                                51 D4 0007B 7$:      CLRL    MASK                                            : 5759
                         50  46 A7 9E 0007D          MOVAB   70(R7), CURSOR                                   : 5760
              F444  C8       50 D1 00081 8$:         CMPL    CURSOR, MBX_END                                  : 5765
                                6A 1E 00086          BGEQU   22$
                         00     60 8F 00088          CASEB   (CURSOR), #0, #17                                : 5767
       0037       0031   002C   0066 0008C 9$:       .WORD   22$-9$,-
       004B       0046   0041   003C 00094                   11$-9$,-
       0024       0024   0050   009C                         12$-9$,-
       0024       0024   0024 00A4                           13$-9$,-
                         005D   0056 00AC                     14$-9$,-
                                                              15$-9$,-
                                                              16$-9$,-
                                                              17$-9$,-
                                                              18$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              10$-9$,-
                                                              19$-9$,-
                                                              20$-9$
              50 00048060  8F  DO 000B0 10$:         MOVL    #295008, R0                                     : 5769
                                04 000B7             RET
                         51     01 88 000B8 11$:     BISB2   #1, MASK                                         : 5771
                                31 11 000BB          BRB     21$
                         51  40 8F 88 000BD 12$:     BISB2   #64, MASK                                        : 5772
                                2B 11 000C1          BRB     21$
                         51     04 88 000C3 13$:     BISB2   #4, MASK                                         : 5773
                                26 11 000C6          BRB     21$
                         51     08 88 000C8 14$:     BISB2   #8, MASK                                         : 5774
```

```
                              21 11 000CB          BRB     21$
               51             02 88 000CD 15$:     BISB2   #2, MASK              5775
                              1C 11 000D0          BRB     21$
               51             10 88 000D2 16$:     BISB2   #16, MASK            5776
                              17 11 000D5          BRB     21$
               51             20 88 000D7 17$:     BISB2   #32, MASK            5777
                              12 11 000DA          BRB     21$
               51       80 8F 88 000DC 18$:        BISB2   #128, MASK           5778
                              0C 11 000E0          BRB     21$
               51     0100 8F A8 000E2 19$:        BISW2   #256, MASK           5779
                              05 11 000E7          BRB     21$
               51     0200 8F A8 000E9 20$:        BISW2   #512, MASK           5780
                              50 D6 000EE 21$:      INCL    CURSOR               5782
                              8F 11 000F0          BRB     8$                   5765
         26 A8               51 D0 000F2 22$:      MOVL    MASK, VALUE_ACCOUNTING_TYPES   5786
         68                  04 88 000F6          BISB2   #4, ITEM_PRESENT      5787
         62                  00 FB 000F9 23$:      CALLS   #0, (PROC_ROUTINE)    5796
                              04 000FC             RET                          5797
```

; Routine Size: 253 bytes,   Routine Base: CODE + 2270

```
 4795          5798  1  ROUTINE PROCESS_SNDSMB_OPTIONS(OPT,MIN,MAX)=
 4796          5799  1
 4797          5800  1  !++
 4798          5801  1  !
 4799          5802  1  !  FUNCTIONAL DESCRIPTION:
 4800          5803  1  !      This routine processes the options of a $SNDSMB service into internal
 4801          5804  1  !      data structures.
 4802          5805  1  !
 4803          5806  1  !  INPUT PARAMETERS:
 4804          5807  1  !      OPT             - Pointer to options.
 4805          5808  1  !      MIN             - Minimum valid option code.
 4806          5809  1  !      MAX             - Maximum valid option code.
 4807          5810  1  !
 4808          5811  1  !  IMPLICIT INPUTS:
 4809          5812  1  !      MBX             - Pointer to buffered mailbox message.
 4810          5813  1  !      MBX_END         - Pointer beyond mailbox message.
 4811          5814  1  !
 4812          5815  1  !  OUTPUT PARAMETERS:
 4813          5816  1  !      NONE
 4814          5817  1  !
 4815          5818  1  !  IMPLICIT OUTPUTS:
 4816          5819  1  !      Converted options stored in appropriate structures.
 4817          5820  1  !
 4818          5821  1  !  ROUTINE VALUE:
 4819          5822  1  !      Completion status.
 4820          5823  1  !
 4821          5824  1  !  SIDE EFFECTS:
 4822          5825  1  !      NONE
 4823          5826  1  !
 4824          5827  1  !--
 4825          5828  1
 4826          5829  2  BEGIN
 4827          5830  2  LITERAL
 4828          5831  2          K_ASCIC=        1,
 4829          5832  2          K_CHAR=         2,
 4830          5833  2          K_FILESIZ=      3,
 4831          5834  2          K_PARAMETERS=   4,
 4832          5835  2          K_SPCCNT=       5;
 4833          5836  2
 4834          5837  2
 4835          5838  2  MACRO
 4836    M     5839  2          PRESET_TABLE(A,B,C) =
 4837          5840  2              OWN A: VECTOR[C+1-B,BYTE,SIGNED] ALIGN(0) PSECT(CODE) PRESET(PRESET_(B, %REMAINING)) %,
 4338          5841  2
 4839          5842  2          PRESET_(A)[B,C] = [B - A] = C %;
 4840          5843  2
 4841          5844  2
 4842    P     5845  2  PRESET_TABLE(CODE_TABLE_1, SMO$K_DELETE, SMO$K_DESTQUE,
 4843    P     5846  2          SMO$K_DELETE,           SJC$_DELETE_FILE,
 4844    P     5847  2          SMO$K_BRSTPAG,          SJC$_FILE_BURST,
 4845    P     5848  2          SMO$K_NOBRSTPAG,        SJC$_NO_FILE_BURST,
 4846    P     5849  2          SMO$K_FLAGPAG,          SJC$_FILE_FLAG,
 4847    P     5850  2          SMO$K_NOFLAGPAG,        SJC$_NO_FILE_FLAG,
 4848    P     5851  2          SMO$K_PAGHDR,           SJC$_PAGE_HEADER,
 4849    P     5852  2          SMO$K_DOUBLE,           SJC$_DOUBLE_SPACE,
 4850    P     5853  2          SMO$K_NOFEED,           SJC$_NO_PAGINATE,
 4851    P     5854  2          SMO$K_PAGCNT,           SJC$_LAST_PAGE,
```

```
 4852    P 5855   2          SMO$K_COPIES,              SJC$_FILE_COPIES,
 4853    P 5856   2          SMO$K_FILESIZ,             0,
 4854      5857   2          SMO$K_DESTQUE,             SJC$_DESTINATION_QUEUE);
 4855      5858
 4856    P 5859   2 PRESET_TABLE(SIZE_TABLE_1, SMO$K_DELETE, SMO$K_DESTQUE,
 4857    P 5860   2          SMO$K_PAGCNT,              2,
 4858    P 5861   2          SMO$K_COPIES,              1,
 4859    P 5862   2          SMO$K_FILESIZ,             - K_FILESIZ,
 4860      5863   2          SMO$K_DESTQUE,             - K_ASCIC);
 4861      5864   2
 4862      5865   2
 4863    P 5866   2 PRESET_TABLE(CODE_TABLE_2, SMO$K_RLSTIM, SMO$K_NOWSEXTNT,
 4864    P 5867   2          SMO$K_RLSTIM,              SJC$_AFTER_TIME,
 4865    P 5868   2          SMO$K_HOLD,                SJC$_HOLD,
 4866    P 5869   2          SMO$K_JOBPRI,              SJC$_PRIORITY,
 4867    P 5870   2          SMO$K_JOBCOPY,             SJC$_JOB_COPIES,
 4868    P 5871   2          SMO$K_FORMTYPE,            SJC$_FORM_NUMBER,
 4869    P 5872   2          SMO$K_LOWER,               SJC$_LOWERCASE,
 4870    P 5873   2          SMO$K_PARAMS,              SJC$_PARAMETER_1,
 4871    P 5874   2          SMO$K_JOBNAME,             SJC$_JOB_NAME,
 4872    P 5875   2          SMO$K_NOLOWER,             SJC$_NO_LOWERCASE,
 4873    P 5876   2          SMO$K_CPULIM,              SJC$_CPU_LIMIT,
 4874    P 5877   2          SMO$K_NOCPULM,             SJC$_NO_CPU_LIMIT,
 4875    P 5878   2          SMO$K_WSQUOTA,             SJC$_WSQUOTA,
 4876    P 5879   2          SMO$K_NOWSQUO,             SJC$_NO_WSQUOTA,
 4877    P 5880   2          SMO$K_WSDEFLT,             SJC$_WSDEFAULT,
 4878    P 5881   2          SMO$K_NOWSDFT,             SJC$_NO_WSDEFAULT,
 4879    P 5882   2          SMO$K_DQCHAR,              SJC$_CHARACTERISTIC_NUMBER,
 4880    P 5883   2          SMO$K_LOGFNAM,             SJC$_LOG_SPECIFICATION,
 4881    P 5884   2          SMO$K_LOGQNAM,             SJC$_LOG_QUEUE,
 4882    P 5885   2          SMO$K_KEEPLOG,             SJC$_NO_LOG_DELETE,
 4883    P 5886   2          SMO$K_NOSPOOL,             SJC$_NO_LOG_SPOOL,
 4884    P 5887   2          SMO$K_NOKEEPLOG,           SJC$_LOG_DELETE,
 4885    P 5888   2          SMO$K_NOLOG,               SJC$_NO_LOG_SPECIFICATION,
 4886    P 5889   2          SMO$K_NOTIFY,              SJC$_NOTIFY,
 4887    P 5890   2          SMO$K_NONOTFY,             SJC$_NO_NOTIFY,
 4888    P 5891   2          SMO$K_WSEXTNT,             SJC$_WSEXTENT,
 4889      5892   2          SMO$K_NOWSEXTNT,           SJC$_NO_WSEXTENT);
 4890      5893   2
 4891    P 5894   2 PRESET_TABLE(SIZE_TABLE_2, SMO$K_RLSTIM, SMO$K_NOWSEXTNT,
 4892    P 5895   2          SMO$K_RLSTIM,              8,
 4893    P 5896   2          SMO$K_JOBPRI,              1,
 4894    P 5897   2          SMO$K_JOBCOPY,             1,
 4895    P 5898   2          SMO$K_FORMTYPE,            1,
 4896    P 5899   2          SMO$K_PARAMS,              - K_PARAMETERS,
 4897    P 5900   2          SMO$K_JOBNAME,             - K_ASCIC,
 4898    P 5901   2          SMO$K_CPULIM,              4,
 4899    P 5902   2          SMO$K_WSQUOTA,             2,
 4900    P 5903   2          SMO$K_WSDEFLT,             2,
 4901    P 5904   2          SMO$K_DQCHAR,              - K_CHAR,
 4902    P 5905   2          SMO$K_LOGFNAM,             - K_ASCIC,
 4903    P 5906   2          SMO$K_LOGQNAM,             - K_ASCIC,
 4904      5907   2          SMO$K_WSEXTNT,             2);
 4905      5908   2
 4906      5909   2
 4907    P 5910   2 PRESET_TABLE(CODE_TABLE_3, SMO$K_CURFORM, SMO$K_NODISWAP,
 4908    P 5911   2          SMO$K_CURFORM,             SJC$_FORM_NUMBER,
```

```
 4909      P 5912   2          SMO$K_GENPRT,              SJC$_GENERIC_SELECTION,
 4910      P 5913   2          SMO$K_NOGENPRT,            SJC$_NO_GENERIC_SELECTION,
 4911      P 5914   2          SMO$K_DETJOB,              SJC$_BATCH,
 4912      P 5915   2          SMO$K_GENDEV,              SJC$_GENERIC_QUEUE,
 4913      P 5916   2          SMO$K_NOGENDEV,            SJC$_NO_GENERIC_QUEUE,
 4914      P 5917   2          SMO$K_DEFBRST,             SJC$_FILE_BURST,
 4915      P 5918   2          SMO$K_NODEFBRST,           SJC$_NO_FILE_BURST,
 4916      P 5919   2          SMO$K_DEFFLAG,             SJC$_FILE_FLAG,
 4917      P 5920   2          SMO$K_NODEFFLAG,           SJC$_NO_FILE_FLAG,
 4918      P 5921   2          SMO$K_TRMDEV,              SJC$_TERMINAL,
 4919      P 5922   2          SMO$K_NOTRMDEV,            SJC$_NO_TERMINAL,
 4920      P 5923   2          SMO$K_JOBLIM,              SJC$_JOB_LIMIT,
 4921      P 5924   2          SMO$K_INIPRI,             SJC$_BASE_PRIORITY,
 4922      P 5925   2          SMO$K_DISWAP,              SJC$_NO_SWAP,
 4923      P 5926   2          SMO$K_MCPULM,              SJC$_CPU_LIMIT,
 4924      P 5927   2          SMO$K_NOMCPULM,            SJC$_NO_CPU_LIMIT,
 4925      P 5928   2          SMO$K_DCPULM,              SJC$_CPU_DEFAULT,
 4926      P 5929   2          SMO$K_NODCPULM,            SJC$_NO_CPU_DEFAULT,
 4927      P 5930   2          SMO$K_WSQUTA,              SJC$_WSQUOTA,
 4928      P 5931   2          SMO$K_NOWSQUTA,            SJC$_NO_WSQUOTA,
 4929      P 5932   2          SMO$K_WSDFLT,              SJC$_WSDEFAULT,
 4930      P 5933   2          SMO$K_NOWSDFLT,            SJC$_NO_WSDEFAULT,
 4931      P  934   2          SMO$K_CURDQCHAR,           SJC$_CHARACTERISTIC_NUMBER,
 4932      P 5935   2          SMO$K_SMBNAME,             SJC$_PROCESSOR,
 4933      P 5936   2          SMO$K_WSXTANT,             SJC$_WSEXTENT,
 4934      P 5937   2          SMO$K_NOWSXTNT,            SJC$_NO_WSEXTENT,
 4935        5938   2          SMO$K_NODISWAP,            SJC$_SWAP);
 4936        5939   2
 4937      P 5940   2  PRESET_TABLE(SIZE_TABLE_3, SMO$K_CURFORM, SMO$K_NODISWAP,
 4938      P 5941   2          SMO$K_CURFORM,             T,
 4939      P 5942   2          SMO$K_JOBLIM,              1,
 4940      P 5943   2          SMO$K_INIPRI,              1,
 4941      P 5944   2          SMO$K_MCPULM,              4,
 4942      P 5945   2          SMO$K_DCPULM,              4,
 4943      P 5946   2          SMO$K_WSQUTA,              2,
 4944      P 5947   2          SMO$K_WSDFLT,              2,
 4945      P 5948   2          SMO$K_CURDQCHAR,           - K_CHAR,
 4946      P 5949   2          SMO$K_SMBNAME,             - K_ASCIC,
 4947        5950   2          SMO$K_WSXTANT,             2);
 4948        5951   2
 4949        5952   2
 4950      P 5953   2  PRESET_TABLE(CODE_TABLE_4, SMO$K_NEXTJOB, SMO$K_SPCCNT,
 4951      P 5954   2          SMO$K_NEXTJOB,             SJC$_NEXT_JOB,
 4952      P 5955   2          SMO$K_TOPOFILE,            SJC$_TOP_OF_FILE,
 4953        5956   2          SMO$K_SPCCNT,              SJC$_RELATIVE_PAGE);
 4954        5957   2
 4955      P 5958   2  PRESET_TABLE(SIZE_TABLE_4, SMO$K_NEXTJOB, SMO$K_SPCCNT,
 4956        5959   2          SMO$K_SPCCNT,              = K_SPCCNT);
 4957        5960   2
 4958        5961   2
 4959      P 5962   2  PRESET_TABLE(CODE_TABLE_5, SMO$K_REQUEUE, SMO$K_REQPRIO,
 4960      P 5963   2          SMO$K_REQUEUE,             SJC$_REQUEUE,
 4961      P 5964   2          SMO$K_REQDEST,             SJC$_DESTINATION_QUEUE,
 4962        5965   2          SMO$K_REQPRIO,             SJC$_PRIORITY);
 4963        5966   2
 4964      P 5967   2  PRESET_TABLE(SIZE_TABLE_5, SMO$K_REQUEUE, SMO$K_REQPRIO,
 4965      P 5968   2          SMO$K_REQDEST,             = K_ASCIC,
```

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

B 7
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JCBCTL.SRC]SNDJBC.B32;1

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```
: 4966    5969   2              SMO$K_REQPRIO,           1);      .
: 4967    5970   2
  4968    5971   2
  4969    5972   2 LOCAL
: 4970    5973   2         P:                REF BBLOCK;  ! Cursor to options
  4971    5974   2
  4972    5975   2
  4973    5976   2 P = .OPT;
  4974    5977   2 WHILE .P LSSA .MBX_END DO
  4975    5978   3     BEGIN
  4976    5979   3     BIND
  4977    5980   3         OPTION_LOWER = UPLIT BYTE (
  4978    5981   3                 SMO$K_DELETE,
  4979    5982   3                 SMO$K_RLSTIM,
  4980    5983   3                 SMO$K_CURFORM,
  4981    5984   3                 SMO$K_NEXTJOB,
  4982    5985   3                 SMO$K_REQUEUE):
  4983    5986   3             VECTOR[,BYTE],
  4984    5987   3
  4985    5988   3         OPTION_UPPER = UPLIT BYTE (
  4986    5989   3                 SMO$K_DESTQUE,
  4987    5990   3                 SMO$K_NOWSEXTNT,
  4988    5991   3                 SMO$K_NODISWAP,
  4989    5992   3                 SMO$K_SPCCNT,
  4990    5993   3                 SMO$K_REQPRIO):
  4991    5994   3             VECTOR[,BYTE],
  4992    5995   3
  4993    5996   3         OPTION_CODE_TABLE = UPLIT (
  4994    5997   3                 CODE_TABLE_1,
  4995    5998   3                 CODE_TABLE_2,
  4996    5999   3                 CODE_TABLE_3,
  4997    6000   3                 CODE_TABLE_4,
  4998    6001   3                 CODE_TABLE_5):
: 4999    6002   3             VECTOR,
: 5000    6003   3
: 5001    6004   3         OPTION_SIZE_TABLE = UPLIT (
: 5002    6005   3                 SIZE_TABLE_1,
: 5003    6006   3                 SIZE_TABLE_2,
: 5004    6007   3                 SIZE_TABLE_3,
: 5005    6008   3                 SIZE_TABLE_4,
: 5006    6009   3                 SIZE_TABLE_5):
: 5007    6010   3             VECTOR;
: 5008    6011   3
: 5009    6012   3
: 5010    6013   3     LOCAL
: 5011    6014   3         O:                        BYTE,
: 5012    6015   3         CODE_TABLE:               REF VECTOR[,BYTE],
: 5013    6016   3         SIZE_TABLE:               REF VECTOR[,BYTE,SIGNED],
: 5014    6017   3         CODE,
: 5015    6018   3         VALUE_SIZE,
: 5016    6019   3         VALUE_ADDRESS:            REF BBLOCK,
: 5017    6020   3         VALUE_TEMPORARY:          BBLOCK[8],
: 5018    6021   3         STATUS;
: 5019    6022   3
: 5020    6023   3
: 5021    6024   3     O = .P[0,0,8,0];
: 5022    6025   3     P = .P + 1;
```

```
5023    6026  3        IF .O EQL 0 THEN EXITLOOP;
5024    6027  3        IF .O LSSU .MIN OR .O GTRU .MAX THEN RETURN JBC$_INVITMCOD;
5025    6028  3
5026    6029  3
5027    6030  3        DECR N FROM 4 TO 0 DO
5028    6031  4            BEGIN
5029    6032  4            IF .O GTRU .OPTION_UPPER[.N] THEN RETURN JBC$_INVITMCOD;
5030    6033  4            IF .O GEQU .OPTION_LOWER[.N]
5031    6034  4            THEN
5032    6035  5                BEGIN
5033    6036  5                CODE_TABLE = .OPTION_CODE_TABLE[.N];
5034    6037  5                SIZE_TABLE = .OPTION_SIZE_TABLE[.N];
5035    6038  5                O = .O - .OPTION_LOWER[.N];
5036    6039  5                EXITLOOP;
5037    6040  4                END;
5038    6041  3            END;
5039    6042  3
5040    6043  3
5041    6044  3        CODE = .CODE_TABLE[.O];
5042    6045  3        ITEM_PRESENT[.CODE] = TRUE;
5043    6046  3
5044    6047  3
5045    6048  3        VALUE_SIZE = .SIZE_TABLE[.O];
5046    6049  3        VALUE_ADDRESS = .P;
5047    6050  3        VALUE_TEMPORARY[0,0,32,0] = VALUE_TEMPORARY[4,0,32,0] = 0;
5048    6051  3        IF .VALUE_SIZE NEQ 0
5049    6052  3        THEN
5050    6053  4            BEGIN
5051    6054  4            IF .VALUE_SIZE LSS 0
5052    6055  4            THEN
5053    6056  5                BEGIN
5054    6057  5                CASE - .VALUE_SIZE FROM K_ASCIC TO K_SPCCNT OF
5055    6058  5                    SET
5056    6059  5
5057    6060  5
5058    6061  5                    [K_ASCIC]:
5059    6062  6                        BEGIN
5060    6063  6                        IF .P EQLA .MBX_END THEN RETURN JBC$_INVMSGBUF;
5061    6064  6                        VALUE_SIZE = .P[0,0,8,0];
5062    6065  6                        P = .P + 1;
5063    6066  6                        IF .P + .VALUE_SIZE GTRA .MBX_END THEN RETURN JBC$_INVMSGBUF;
5064    6067  6                        VALUE_ADDRESS = .P;
5065    6068  6                        P = .P + .VALUE_SIZE;
5066    6069  5                        END;
5067    6070  5
5068    6071  5
5069    6072  5                    [K_CHAR]:
5070    6073  6                        BEGIN
5071    6074  6                        IF .P GTRA .MBX_END - 16 THEN RETURN JBC$_INVMSGBUF;
5072    6075  6                        MOVC3(%REF(16), .P, VALUE_CHARACTERISTICS; , P);
5073    6076  6                        VALUE_SIZE = 0;
5074    6077  5                        END;
5075    6078  5
5076    6079  5
5077    6080  5                    [K_FILESIZ]:
5078    6081  6                        BEGIN
5079    6082  6                        IF .P GTRA .MBX_END - 4 THEN RETURN JBC$_INVMSGBUF;
```

```
: 5080      6083  6              P = .P + .VALUE_SIZE;
: 5081      6084  6              VALUE_SIZE = 0;
: 5082      6085  5              END;
: 5083      6086  5
: 5084      6087  5
: 5085      6088  5          [K_PARAMETERS]:
: 5086      6089  6              BEGIN
: 5087      6090  6              LOCAL
: 5088      6091  6                  STATUS;              ! Status return
: 5089      6092  6
: 5090      6093  6              WHILE TRUE DO
: 5091      6094  7                  BEGIN
: 5092      6095  7                  IF .P GEQA .MBX_END THEN RETURN JBC$_INVMSGBUF;
: 5093      6096  7                  VALUE_SIZE = .P[0,0,8,0];
: 5094      6097  7                  P = .P + 1;
: 5095      6098  7                  IF .VALUE_SIZE EQL 0 THEN EXITLOOP;
: 5096      6099  7                  IF .CODE GTRU SJC$_PARAMETER_8 THEN RETURN JBC$_INVPARVAL;
: 5097      6100  7                  ITEM_PRESENT[.CODE] = TRUE;
: 5098      6101  7                  IF .VALUE_SIZE NEQ 1 OR CH$RCHAR(.P) NEQ %X'FF'
: 5099      6102  7                  THEN
: 5100      6103  8                      BEGIN
: 5101      6104  8                      STATUS = PROCESS_ONE_OPTION(
: 5102      6105  8                          .CODE, .VALUE_SIZE, .P);
: 5103      6106  8                      IF NOT .STATUS THEN RETURN .STATUS;
: 5104      6107  7                      END;
: 5105      6108  7                  CODE = .CODE + 1;
: 5106      6109  7                  P = .P + .VALUE_SIZE;
: 5107      6110  6                  END;
: 5108      6111  5              END;
: 5109      6112  5
: 5110      6113  5
: 5111      6114  5          [K_SPCCNT]:
: 5112      6115  6              BEGIN
: 5113      6116  6              IF .P GTRA .MBX_END - 2 THEN RETURN JBC$_INVMSGBUF;
: 5114      6117  6              VALUE_TEMPORARY = .VALUE_ADDRESS[0,0,16,1];
: 5115      6118  6              P = .P + 2;
: 5116      6119  6              VALUE_SIZE = 4;
: 5117      6120  6              VALUE_ADDRESS = VALUE_TEMPORARY;
: 5118      6121  5              END;
: 5119      6122  5
: 5120      6123  5
: 5121      6124  5              TES;
: 5122      6125  5          END
: 5123      6126  4      ELSE
: 5124      6127  5          BEGIN
: 5125      6128  5          IF .P GTRA .MBX_END - .VALUE_SIZE THEN RETURN JBC$_INVMSGBUF;
: 5126      6129  5          P = .P + .VALUE_SIZE;
: 5127      6130  5          IF .VALUE_SIZE LSS 4
: 5128      6131  5          THEN
: 5129      6132  6              BEGIN
: 5130      6133  6              VALUE_TEMPORARY = .VALUE_ADDRESS[0, 0, .VALUE_SIZE*8, 0];
: 5131      6134  6              VALUE_SIZE = 4;
: 5132      6135  6              VALUE_ADDRESS = VALUE_TEMPORARY;
: 5133      6136  5              END;
: 5134      6137  4          END;
: 5135      6138  3      END;
: 5136      6139  3
```

```
; 5137      6140  3
; 5138      6141  3              IF .VALUE_SIZE NEQ 0
; 5139      6142  3              THEN
; 5140      6143  4                  BEGIN
; 5141      6144  4                  STATUS = PROCESS_ONE_OPTION(.CODE, .VALUE_SIZE, .VALUE_ADDRESS);
; 5142      6145  4                  IF NOT .STATUS THEN RETURN .STATUS;
; 5143      6146  3                  END;
; 5144      6147  2              END;
; 5145      6148  2  SS$_NORMAL
; 5146      6149  1  END;
```

```
                1A  00  23  5B  76  1C  71  26  24  22  20  18  0236D  CODE_TABLE_1:
                                                                .BYTE    24, 32, 34, 36, 38, 113, 28, 118, 91, 35, -
                                                                         0, 26
                                                    00#  02379  SIZE_TABLE_1:
                                                                .BYTE    0[8]
                                            FF  FD  01  02  02381  .BYTE    2, 1, -3, -1
98  97  9C  9B  16  15  67  4F  77  66  37  4B  82  47  03  02385  CODE_TABLE_2:
                                                                .BYTE    3, 71, -126, 75, 55, 102, 119, 79, 103, -
            9A  99  6D  6C  63  5F  65  60  61  62  0D  02394       21, 22, -101, -100, -105, -104, 13, 98, -
                                                                         97, 96, 101, 95, 99, 108, 109, -103, -102
                                                    08  0239F  SIZE_TABLE_2:
                                                                .BYTE    8
                                                    00  023A0  .BYTE    0
                                            01  01  01  023A1  .BYTE    1, 1, 1
                                                    00  023A4  .BYTE    0
                                                FF  FC  023A5  .BYTE    -4, -1
                                                    00  023A7  .BYTE    0
                                                    04  023A8  .BYTE    4
                                                    00  023A9  .BYTE    0
                                                    02  023AA  .BYTE    2
                                                    00  023AB  .BYTE    0
                                                    02  023AC  .BYTE    2
                                                    00  023AD  .BYTE    0
                                            FF  FF  FE  023AE  .BYTE    -2, -1, -1
                                                    00#  023B1  .BYTE    0[6]
                                                    02  023B7  .BYTE    2
                                                        023B8  .BLKB    1
92  07  4E  94  93  26  24  22  20  43  42  08  45  44  37  023B9  CODE_TABLE_3:
                                                                .BYTE    55, 68, 69, 8, 66, 67, 32, 34, 36, 38, -
            91  9A  99  83  0D  98  97  9C  9B  14  13  16  15  023C8   -109, -108, 78, 7, -110, 21, 34, 22, 19, 20, -
                                                                         -101, -100, -105, -104, 13, -125, -103, -
                                                                         -102, -111
                                                    01  023D5  SIZE_TABLE_3:
                                                                .BYTE    1
                                                    00#  023D6  .BYTE    0[11]
                                            01  01  023E1  .BYTE    1, 1
                                                    00  023E3  .BYTE    0
                                                    04  023E4  .BYTE    4
                                                    00  023E5  .BYTE    0
                                                    04  023E6  .BYTE    4
                                                    00  023E7  .BYTE    0
                                                    02  023E8  .BYTE    2
                                                    00  023E9  .BYTE    0
                                                    02  023EA  .BYTE    2
```

```
                                  00  023EB              .BYTE   0                                              ;
                          02 FF   FE  023EC              .BYTE   -2, -1, 2                                      ;
                                      023EF              .BLKB   2
                          88 95   69  023F1 CODE_TABLE_4:
                                                         .BYTE   105, -107, -120                                ;
                                 00#  023F4 SIZE_TABLE_4:
                                                         .BYTE   0[2]
                                  FB  023F6              .BYTE   -5                                              ;
                          82 1A   89  023F7 CODE_TABLE_5:
                                                         .BYTE   -119, 26, -126
                                  00  023FA SIZE_TABLE_5:
                                                         .BYTE   0                                              ;
                                 01 FF 023FB             .BYTE   -1, 1
                       70 60 40 20 01 023FD P.AAC:       .BYTE   1, 32, 64, 96, 112
                       72 62 5B 39 0C 02402 P.AAD:       .BYTE   12, 57, 91, 98, 114
                                      02407              .BLKB
     00000000' 00000000' 00000000' 00000000' 00000000' 02408 P.AAE:  .ADDRESS CODE_TABLE_1, CODE_TABLE_2, -
                                                         CODE_TABLE_3, CODE_TABLE_4, CODE_TABLE_5              ;
     00000000' 00000000' 00000000' 00000000' 00000000' 0241C P.AAF:  .ADDRESS SIZE_TABLE_1, SIZE_TABLE_2, -
                                                         SIZE_TABLE_3, SIZE_TABLE_4, SIZE_TABLE_5             ;


                                       OPTION_LOWER=        P.AAC
                                       OPTION_UPPER=        P.AAD
                                       OPTION_CODE_TABLE=   P.AAE
                                       OPTION_SIZE_TABLE=   P.AAF



                              0FFC 00000 PROCESS_SNDSMB_OPTIONS:
                                                      .WORD    Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11           ; 5798
                   5B 00000000'  EF  9E 00002         MOVAB    MBX_END, R11
                                 5E  08 C2 00009       SUBL2    #8, SP
                                 57      04 AC D0 0000C MOVL    OPT, P                                         ; 5976
                                 58      6B D0 00010 1$: MOVL   MBX_END, R8                                    ; 5977
                                 58      57 D1 00013      CMPL  P, R8
                                         03 1F 00016      BLSSU 3$
                                       0142 31 00018 2$:  BRW   33$
                                 51      87 90 0001B 3$:  MOVB  (P)+, 0                                        ; 6024
                                 F8      13 0001E         BEQL  2$                                             ; 60c6
        08 AC            51      08      00 ED 00020       CMPZV #0, #8, 0, MIN                                ; 6027
                                 12      1F 00026          BLSSU 5$
        0C AC            51      08      00 ED 00028       CMPZV #0, #8, 0, MAX
                                 0A      1A 0002E          BGTRU 5$
                                 50      04 D0 00030        MOVL #4, N                                         ; 6030
                       9A AF40   51      91 00033 4$:       CMPB 0, OPTION_UPPER[N]                            ; 6032
                                 08      1B 00038          BLEQU 6$
                       50 00048060 8F   D0 0003A 5$:       MOVL #295008, R0
                                 04 00041                  RET
                       86 AF40   51      91 00042 6$:       CMPB 0, OPTION_LOWER[N]                            ; 6033
                                 12      1F 00047          BLSSU 7$
                                 53   8B AF40 D0 00049       MOVL OPTION_CODE_TABLE[N], CODE_TABLE            ; 6036
                                 52   9A AF40 D0 0004E       MOVL OPTION_SIZE_TABLE[N], SIZE_TABLE            ; 6037
                                 51  FF75 CF40 82 00053      SUBB2 OPTION_LOWER[N], 0                         ; 6038
                                 03      11 00059          BRB   8$                                            ; 6035
                                 D5   50 F4 0005B 7$:      SOBGEQ N, 4$                                        ; 6030
                                 50   51 9A 0005E 8$:      MOVZBL 0, R0                                        ; 6044
                                 5A      6043 9A 00061      MOVZBL (R0)[CODE_TABLE], CODE
              00     0BBC CB      5A   E2 00065             BBSS CODE, ITEM_PRESENT, 9$                        ; 6045
```

```
                            56            6042 98 0006B  9$:    CVTBL   (R0)[SIZE_TABLE], VALUE_SIZE        ;  6048
                            59                 57 D0 0006F        MOVL    P, VALUE_ADDRESS                    ;  6049
                                               6E 7C 00072        CLRQ    VALUE_TEMPORARY                    ;  6050
                                               56 D5 00074        TSTL    VALUE_SIZE                         ;  6051
                                               5E 13 00076        BEQL    20$
                                               03 19 00078        BLSS    10$                                ;  6054
                                             00A2 31 0007A        BRW     26$
                            50                 56 CE 0007D 10$:   MNEGL   VALUE_SIZE, R0                     ;  6057
                      04    01                 50 CF 00080        CASEL   R0, #1, #4
       004A           003A  0026             000A    00084 11$:   .WORD   12$-11$,-                           ;
                                             008A    0008C              15$-11$,-
                                                                         16$-11$,-
                                                                         19$-11$,-
                                                                         25$-11$
                            58                 57 D1 0008E 12$:   CMPL    P, R8                              ;  6063
                                               03 12 00091        BNEQ    14$
                                             0092 31 00093 13$:   BRW     27$
                            56                 87 9A 00096 14$:   MOVZBL  (P)+, VALUE_SIZE                   ;  6064
                      51    57                 56 C1 00099        ADDL3   VALUE_SIZE, P, R1                  ;  6066
                            58                 51 D1 0009D        CMPL    R1, R8
                                               F1 1A 000A0        BGTRU   13$
                            59                 57 D0 000A2        MOVL    P, VALUE_ADDRESS                   ;  6067
                            57                 56 C0 000A5        ADDL2   VALUE_SIZE, P                      ;  6068
                                               22 11 000A8        BRB     18$                                ;  6057
                            50         F0   A8 9E 000AA 15$:   MOVAB   -16(R8), R0                        ;  6074
                            50                 57 D1 000AE        CMPL    P, R0
                                               75 1A 000B1        BGTRU   27$
          0C08  CB                             67 10 28 000B3        MOVC3   #16, (P), VALUE_CHARACTERISTICS   ;  6075
                            57                 51 D0 000B9        MOVL    R1, R7
                                               0C 11 000BC        BRB     17$                                ;  6076
                            50         FC   A8 9E 000BE 16$:   MOVAB   -4(R8), R0                         ;  6082
                            50                 57 D1 000C2        CMPL    P, R0
                                               61 1A 000C5        BGTRU   27$
                            57                 56 C0 000C7        ADDL2   VALUE_SIZE, P                      ;  6083
                                               56 D4 000CA 17$:   CLRL    VALUE_SIZE                         ;  6084
                                               79 11 000CC 18$:   BRB     30$                                ;  6057
                            6B                 57 D1 000CE 19$:   CMPL    P, MBX_END                         ;  6095
                                               55 1E 000D1        BGEQU   27$
                            56                 87 9A 000D3        MOVZBL  (P)+, VALUE_SIZE                   ;  6096
                                               6F 13 000D6 20$:   BEQL    30$                                ;  6098
             0000007E  8F                      5A D1 000D8        CMPL    CODE, #126                         ;  6099
                                               08 1B 000DF        BLEQU   21$
          50 00048110  8F                      D0 000E1        MOVL    #295184, R0
                                               04 000E8        RET
             00    0BBC  CB                     5A E2 000E9 21$:   BBSS    CODE, ITEM_PRESENT, 22$            ;  6100
                      01                         56 D1 000EF 22$:   CMPL    VALUE_SIZE, #1                     ;  6101
                                               06 12 000F2        BNEQ    23$
                FF   8F                          67 91 000F4        CMPB    (P), #255
                                               0D 13 000F8        BEQL    24$
                            7E                 56 7D 000FA 23$:   MOVQ    VALUE_SIZE, -(SP)                  ;  6105
                                               5A DD 000FD        PUSHL   CODE
                 F9A4  CF                         03 FB 000FF        CALLS   #3, PROCESS_ONE_OPTION
                            59                 50 E9 00104        BLBC    STATUS, 34$
                                               5A D6 00107 24$:   INCL    CODE                               ;  6106
                            57                 56 C0 00109        ADDL2   VALUE_SIZE, P                      ;  6108
                                               C0 11 0010C        BRB     19$                                ;  6109
                            50         FE   A8 9E 0010E 25$:   MOVAB   -2(R8), R0                         ;  6116
```

```
                          50                57 D1 00112          CMPL    P, R0
                                            11 1A 00115          BGTRU   27$
                          6E                69 32 00117          CVTWL   (VALUE_ADDRESS), VALUE_TEMPORARY           6117
                          57                02 C0 0011A          ADDL2   #2, P                                     6118
                                            22 11 0011D          BRB     29$                                       6119
                          50                58 C3 0011F 26$:     SUBL3   VALUE_SIZE, R8, R0                         6128
                          50                57 D1 00123          CMPL    P, R0
                                            08 1B 00126          BLEQU   28$
                          50 00048100       8F D0 00128 27$:     MOVL    #295168, R0
                                            04 0012F             RET
                          57                56 C0 00130 28$:     ADDL2   VALUE_SIZE, P                              6129
                          04                56 D1 00133          CMPL    VALUE_SIZE, #4                             6130
                                            0F 18 00136          BGEQ    30$
                    50    56                03 78 00138          ASHL    #3, VALUE_SIZE, R0                         6133
             6E     69    50                00 EF 0013C          EXTZV   #0, R0, (VALUE_ADDRESS), VALUE_TEMPORARY
                          56                04 D0 00141 29$:     MOVL    #4, VALUE_SIZE                             6134
                          59                6E 9E 00144          MOVAB   VALUE_TEMPORARY, VALUE_ADDRESS            6135
                          56                D5 00147 30$:        TSTL    VALUE_SIZE                                 6141
                                            03 12 00149          BNEQ    32$
                                          FEC2 31 0014B 31$:     BRW     1$
                    0240  8F                BB 0014E 32$:        PUSHR   #^M<R6,R9>                                6144
                                            5A DD 00152          PUSHL   CODE
             F94F  CF                       03 FB 00154          CALLS   #3, PROCESS_ONE_OPTION
                   EF                       50 E8 00159          BLBS    STATUS, 31$                               6145
                                            04 0015C             RET
                          50                01 D0 0015D 33$:     MOVL    #1, R0                                    6149
                                            04 00160 34$:        RET
```

; Routine Size: 353 bytes,   Routine Base: CODE + 2430

```
 5148    6150    1  GLOBAL ROUTINE SNDSMB_SERVICE=
 5149    6151    1
 5150    6152    1  !++
 5151    6153    1  !
 5152    6154    1  !  FUNCTIONAL DESCRIPTION:
 5153    6155    1  !        This routine processes the message type:
 5154    6156    1  !                MSG$_SNDSMB              send to symbiont manager
 5155    6157    1  !        by dispatching to a request-specific routine.
 5156    6158    1  !
 5157    6159    1  !  INPUT PARAMETERS:
 5158    6160    1  !        NONE
 5159    6161    1  !
 5160    6162    1  !  IMPLICIT INPUTS:
 5161    6163    1  !        MBX                - Pointer to buffered mailbox message.
 5162    6164    1  !
 5163    6165    1  !  OUTPUT PARAMETERS:
 5164    6166    1  !        NONE
 5165    6167    1  !
 5166    6168    1  !  IMPLICIT OUTPUTS:
 5167    6169    1  !        NONE
 5168    6170    1  !
 5169    6171    1  !  ROUTINE VALUE:
 5170    6172    1  !        Completion status to be returned to requestor.
 5171    6173    1  !
 5172    6174    1  !  SIDE EFFECTS:
 5173    6175    1  !        NONE
 5174    6176    1  !
 5175    6177    1  !--
 5176    6178    1
 5177    6179    2  BEGIN
 5178    6180    2  OWN
 5179    6181    2          SEARCH_REQUIRED:          BITVECTOR[MAX_SNDSMB_FUNC+1]
 5180    6182    2              PSECT(CODE)  PRESET(
 5181    6183    2                  [SMR$K_ABORT]=             TRUE,
 5182    6184    2                  [SMR$K_ALTER]=            TRUE,
 5183    6185    2                  [SMR$K_CREJOB]=           TRUE,
 5184    6186    2                  [SMR$K_ENTER]=            TRUE,
 5185    6187    2                  [SMR$K_PAUSE]=            TRUE,
 5186    6188    2                  [SMR$K_RELEASE]=          TRUE,
 5187    6189    2                  [SMR$K_RMVJOB]=           TRUE,
 5188    6190    2                  [SMR$K_START]=            TRUE,
 5189    6191    2                  [SMR$K_STOP]=             TRUE,
 5190    6192    2                  [SMR$K_SYNCJOB]=          TRUE),
 5191    6193    2
 5192    6194    2          QUEUE_PRESENT:  BITVECTOR[MAX_SNDSMB_FUNC+1]
 5193    6195    2              PSECT(CODE)  PRESET(
 5194    6196    2                  [SMR$K_ABORT]=             TRUE,
 5195    6197    2                  [SMR$K_ALTER]=            TRUE,
 5196    6198    2                  [SMR$K_CREJOB]=           TRUE,
 5197    6199    2                  [SMR$K_DELETE]=           TRUE,
 5198    6200    2                  [SMR$K_ENTER]=            TRUE,
 5199    6201    2                  [SMR$K_INITIAL]=          TRUE,
 5200    6202    2                  [SMR$K_PAUSE]=            TRUE,
 5201    6203    2                  [SMR$K_RELEASE]=          TRUE,
 5202    6204    2                  [SMR$K_RMVJOB]=           TRUE,
 5203    6205    2                  [SMR$K_START]=            TRUE,
 5204    6206    2                  [SMR$K_STOP]=             TRUE,
```

```
 5205   6207   2                           [SMR$K_SYNCJOB]=          TRUE),
 5206   6208   2
 5207   6209   2           MINIMUM_LENGTH:              VECTOR[MAX_SNDSMB_FUNC+1,BYTE]
 5208   6210   2               PSECT(CODE) PRESET(
 5209   6211   2                   [SMR$K_ABORT]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5210   6212   2                   [SMR$K_ADDFIL]=              $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 6 + 6 + 20,
 5211   6213   2                   [SMR$K_ALTER]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 2,
 5212   6214   2                   [SMR$K_CLSJOB]=              $BYTEOFFSET(ACM$W_USERREQ) + 2,
 5213   6215   2                   [SMR$K_CREJOB]=              $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5214   6216   2                   [SMR$K_DELETE]=              $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5215   6217   2                   [SMR$K_ENTER]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 16 + 6 + 6 + 20,
 5216   6218   2                   [SMR$K_INITIAL]=             $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5217   6219   2                   [SMR$K_MERGE]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 16,
 5218   6220   2                   [SMR$K_PAUSE]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5219   6221   2                   [SMR$K_REDIRECT]=            $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 16,
 5220   6222   2                   [SMR$K_RELEASE]=             $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 2,
 5221   6223   2                   [SMR$K_RMVJOB]=              $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 2,
 5222   6224   2                   [SMR$K_START]=               $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5223   6225   2                   [SMR$K_STOP]=                $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16,
 5224   6226   2                   [SMR$K_SYNCJOB]=             $BYTEOFFSET(ACM$W_USERREQ) + 2 + 16 + 2 + 10),
 5225   6227   2
 5226   6228   2           PROCESSING_ROUTINE:          VECTOR[MAX_SNDSMB_FUNC+1]
 5227   6229   2               PSECT(CODE) PRESET(
 5228   6230   2                   [SMR$K_ABORT]=               SJC_ABORT_JOB,
 5229   6231   2                   [SMR$K_ADDFIL]=              SJC_ADD_FILE,
 5230   6232   2                   [SMR$K_ALTER]=               SJC_ALTER_JOB,
 5231   6233   2                   [SMR$K_CLSJOB]=              SJC_CLOSE_JOB,
 5232   6234   2                   [SMR$K_CREJOB]=              SJC_CREATE_JOB,
 5233   6235   2                   [SMR$K_DELETE]=              SJC_DELETE_QUEUE,
 5234   6236   2                   [SMR$K_ENTER]=               SJC_ENTER_FILE,
 5235   6237   2                   [SMR$K_INITIAL]=             SJC_CREATE_QUEUE,
 5236   6238   2                   [SMR$K_MERGE]=               SJC_MERGE_QUEUE,
 5237   6239   2                   [SMR$K_PAUSE]=               SJC_PAUSE_QUEUE,
 5238   6240   2                   [SMR$K_REDIRECT]=            SJC_ASSIGN_QUEUE,
 5239   6241   2                   [SMR$K_RELEASE]=             SJC_ALTER_JOB,
 5240   6242   2                   [SMR$K_RMVJOB]=              SJC_DELETE_JOB,
 5241   6243   2                   [SMR$K_START]=               SJC_START_QUEUE,
 5242   6244   2                   [SMR$K_STOP]=                SJC_STOP_QUEUE,
 5243   6245   2                   [SMR$K_SYNCJOB]=             SJC_SYNCHRONIZE_JOB);
 5244   6246   2
 5245   6247   2   LOCAL
 5246   6248   2           SQX_N,                                    ! Record number of SQX
 5247   6249   2           SQE:            REF BBLOCK,               ! Pointer to SQX entry
 5248   6250   2           SMQ_N,                                    ! Record number of SMQ
 5249   6251   2           SMQ:            REF BBLOCK,               ! Pointer to SMQ
 5250   6252   2           PROC_ROUTINE;                             ! Processing routine
 5251   6253   2
 5252   6254   2
 5253   6255   2   ! Ensure that the message contains the request type.
 5254   6256   2   !
 5255   6257   2   IF .MBX[ACM$W_MSGLEN] LSSU $BYTEOFFSET(ACM$W_USERREQ) + 2
 5256   6258   2   THEN
 5257   6259   2       RETURN JBC$_INVMSGBUF;
 5258   6260   2
 5259   6261   2
 5260   6262   2   ! Validate the request code.
 5261   6263   2   !
```

SNDJBC
V04-000
$SNDACC, $SNDSMB, and $SNDJBC services
K 7
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1
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```
5262   6264   2   DIAG_TRACE[1] = .MBX[ACMSW_USERREQ];      ! ***** diagnostic info *****
5263   6265   2   IF
5264   6266   3       BEGIN
5265   6267   3       IF .MBX[ACMSW_USERREQ] LSSU MIN_SNDSMB_FUNC
5266   6268   3       OR .MBX[ACMSW_USERREQ] GTRU MAX_SNDSMB_FUNC
5267   6269   3       THEN
5268   6270   3           TRUE
5269   6271   3       ELSE
5270   6272   3           .PROCESSING_ROUTINE[.MBX[ACMSW_USERREQ]] EQL 0
5271   6273   3       END
5272   6274   2   THEN
5273   6275   2       RETURN JBC$_INVFUNCOD;
5274   6276   2
5275   6277   2
5276   6278   2   ! Ensure that the message contains all required fields.
5277   6279   2   !
5278   6280   2   IF .MBX[ACMSW_MSGLEN] LSSU .MINIMUM_LENGTH[.MBX[ACMSW_USERREQ]]
5279   6281   2   THEN
5280   6282   2       RETURN JBC$_INVMSGBUF;
5281   6283   2
5282   6284   2   SNDSMB_COUNT[.MBX[ACMSW_USERREQ]] = .SNDSMB_COUNT[.MBX[ACMSW_USERREQ]] + 1;
5283   6285   2
5284   6286   2
5285   6287   2   ! Ensure that the queue file is open, and lock it.
5286   6288   2   !
5287   6289   2   IF .QUEUE_FAB[FAB$W_IFI] EQL 0 THEN RETURN JBC$_JOBQUEDIS;
5288   6290   2   LOCK_QUEUE_FILE();
5289   6291   2
5290   6292   2
5291   6293   2   ! Set up for parameter preprocessing.
5292   6294   2   !
5293   6295   2   CH$FILL(0, VALUE_STORAGE_END - VALUE_STORAGE_BASE, VALUE_STORAGE_BASE);
5294   6296   2   PROC_ROUTINE = .PROCESSING_ROUTINE[.MBX[ACMSW_USERREQ]];
5295   6297   2
5296   6298   2
5297   6299   2   ! If the request has a queue name, preprocess it into static storage.
5298   6300   2   !
5299   6301   2   IF .QUEUE_PRESENT[.MBX[ACMSW_USERREQ]]
5300   6302   2   THEN
5301   6303   3       BEGIN
5302   6304   3       LOCAL
5303   6305   3           STATUS;
5304   6306   3
5305   6307   3       STATUS = PROCESS_ONE_OPTION(
5306   6308   3           SJC$_QUEUE,
5307   6309   3           CH$RCHAR(MBX[ACMST_QUEUE_1]),
5308   6310   3           MBX[ACMST_QUEUE_1]+1);
5309   6311   3       IF NOT .STATUS THEN RETURN .STATUS;
5310   6312   2       END;
5311   6313   2
5312   6314   2
5313   6315   2   ! If the request requires a queue search, search for the queue.
5314   6316   2   !
5315   6317   2   IF .SEARCH_REQUIRED[.MBX[ACMSW_USERREQ]]
5316   6318   2   THEN
5317   6319   2       IF NOT FIND_QUEUE(VALUE_QUEUE; SQX_N, SQE, SMQ_N, SMQ)
5318   6320   2       THEN
```

```
 5319      6321   2           RETURN JBC$_NOSUCHQUE;
 5320      6322   2
 5321      6323   2
 5322      6324   2 ! Preprocess the remaining parameters into static storage.
 5323      6325   2 !
 5324      6326   2 CASE .MBX[ACM$W_USERREQ] FROM MIN_SNDSMB_FUNC TO MAX_SNDSMB_FUNC OF
 5325      6327   2       SET
 5326      6328   2
 5327      6329   2
 5328      6330   2       [SMR$K_ABORT]:
 5329      6331   3           BEGIN
 5330      6332   3           IF .SMQ[SMQ$V_BATCH]
 5331      6333   3           THEN
 5332      6334   4               BEGIN
 5333      6335   4               VALUE_ENTRY_NUMBER = .MBX[ACM$W_ENTRY_NUMBER];
 5334      6336   4               ITEM_PRESENT[SJC$_ENTRY_NUMBER] = TRUE;
 5335      6337   4               END
 5336      6338   3           ELSE
 5337      6339   4               BEGIN
 5338      6340   4               LOCAL
 5339      6341   4                   STATUS;
 5340      6342   4
 5341      6343   4               STATUS = PROCESS_SNDSMB_OPTIONS(
 5342      6344   4                   MBX[ACM$T_QUE_OPT],
 5343      6345   4                   SMO$K_REQUEUE, SMO$K_REQPRIO);
 5344      6346   4               IF NOT .STATUS THEN RETURN .STATUS;
 5345      6347   3               END;
 5346      6348   2           END;
 5347      6349   2
 5348      6350   2
 5349      6351   2       [SMR$K_ADDFIL]:
 5350      6352   3           BEGIN
 5351      6353   3           LOCAL
 5352      6354   3               STATUS_1;
 5353      6355   3
 5354      6356   3           CH$MOVE(
 5355      6357   3               %ALLOCATION(VALUE_FILE_IDENTIFICATION),
 5356      6358   3               MBX_END[ACM$T_INT_FID],
 5357      6359   3               VALUE_FILE_IDENTIFICATION);
 5358      6360   3           VALUE_FILE_SPECIFICATION[SDSC_W_LENGTH] =
 5359      6361   3               .MBX_END[ACM$W_INT_RSL];
 5360      6362   3           VALUE_FILE_SPECIFICATION[SDSC_A_POINTER] =
 5361      6363   3               MBX_END[ACM$W_INT_RSL] - .MBX_END[ACM$W_INT_RSL];
 5362      6364   3           STATUS_1 = PROCESS_SNDSMB_OPTIONS(
 5363      6365   3               MBX[ACM$T_ADF_OPT],
 5364      6366   3               SMO$K_DELETE, SMO$K_FILESIZ);
 5365      6367   3           IF NOT .STATUS_1 THEN RETURN .STATUS_1;
 5366      6368   2           END;
 5367      6369   2
 5368      6370   2
 5369      6371   2       [SMR$K_ALTER]:
 5370      6372   3           BEGIN
 5371      6373   3           LOCAL
 5372      6374   3               STATUS;
 5373      6375   3
 5374      6376   3           VALUE_ENTRY_NUMBER = .MBX[ACM$W_ENTRY_NUMBER];
 5375      6377   3           STATUS = PROCESS_SNDSMB_OPTIONS(
```

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V04-000
$SNDACC, $SNDSMB, and $SNDJBC services
M 7
16-Sep-1984 00:27:53
14-Sep-1984 12:37:15
VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]SNDJBC.B32;1
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```
 5376    6378  3            MBX[ACM$T_QJB_OPT],
 5377    6379  3            SMO$K_DESTQUE, SMO$K_NOWSEXTNT);
 5378    6380  3        IF NOT .STATUS THEN RETURN .STATUS;
 5379    6381  3        ITEM_PRESENT[SJC$_ENTRY_NUMBER] = TRUE;
 5380    6382  2        END;
 5381    6383  2
 5382    6384  2
 5383    6385  2    [SMR$K_CREJOB]:
 5384    6386  2        BEGIN
 5385    6387  3        LOCAL
 5386    6388  3            STATUS;
 5387    6389  3
 5388    6390  3        STATUS = PROCESS_SNDSMB_OPTIONS(
 5389    6391  3            MBX[ACM$T_QUE_OPT],
 5390    6392  3            SMO$K_RLSTIM, SMO$K_NOWSEXTNT);
 5391    6393  3        IF NOT .STATUS THEN RETURN .STATUS;
 5392    6394  2        END;
 5393    6395  2
 5394    6396  2
 5395    6397  2    [SMR$K_ENTER]:
 5396    6398  3        BEGIN
 5397    6399  3        LOCAL
 5398    6400  3            STATUS_1;
 5399    6401  3
 5400    6402  3        CH$MOVE(
 5401    6403  3            %ALLOCATION(VALUE_FILE_IDENTIFICATION),
 5402    6404  3            MBX_END[ACM$T_INT_FID],
 5403    6405  3            VALUE_FILE_IDENTIFICATION);
 5404    6406  3        VALUE_FILE_SPECIFICATION[SDSC_W_LENGTH] =
 5405    6407  3            .MBX_END[ACM$W_INT_RSL];
 5406    6408  3        VALUE_FILE_SPECIFICATION[SDSC_A_POINTER] =
 5407    6409  3            MBX_END[ACM$W_INT_RSL] - .MBX_END[ACM$W_INT_RSL];
 5408    6410  3        STATUS_1 = PROCESS_SNDSMB_OPTIONS(
 5409    6411  3            MBX[ACM$T_ENT_OPT],
 5410    6412  3            SMO$K_DELETE, SMO$K_NOWSEXTNT);
 5411    6413  3        IF NOT .STATUS_1 THEN RETURN .STATUS_1;
 5412    6414  2        END;
 5413    6415  2
 5414    6416  2
 5415    6417  2    [SMR$K_INITIAL]:
 5416    6418  3        BEGIN
 5417    6419  3        LOCAL
 5418    6420  3            STATUS;
 5419    6421  3
 5420    6422  3        STATUS = PROCESS_SNDSMB_OPTIONS(
 5421    6423  3            MBX[ACM$T_QUE_OPT],
 5422    6424  3            SMO$K_CURFORM, SMO$K_NODISWAP);
 5423    6425  3        IF NOT .STATUS THEN RETURN .STATUS;
 5424    6426  2        END;
 5425    6427  2
 5426    6428  2
 5427    6429  2    [SMR$K_MERGE]:
 5428    6430  3        BEGIN
 5429    6431  3        LOCAL
 5430    6432  3            STATUS_1,
 5431    6433  3            STATUS_2;
 5432    6434  3
```

```
5433    6435   3          STATUS_1 = PROCESS_ONE_OPTION(
5434    6436   3              SJC$_DESTINATION_QUEUE,
5435    6437   3              CH$RCHAR(MBX[ACM$T_QUEUE_1]),
5436    6438   3              MBX[ACM$T_QUEUE_1]+1);
5437    6439   3          IF NOT .STATUS_1 THEN RETURN .STATUS_1;
5438    6440   3          STATUS_2 = PROCESS_ONE_OPTION(
5439    6441   3              SJC$_QUEUE,
5440    6442   3              CH$RCHAR(MBX[ACM$T_QUEUE_2]),
5441    6443   3              MBX[ACM$T_QUEUE_2]+1);
5442    6444   3          IF NOT .STATUS_2 THEN RETURN .STATUS_2;
5443    6445   3          IF NOT FIND_QUEUE(VALUE_QUEUE; SQX_N, SQE, SMQ_N, SMQ)
5444    6446   3              THEN RETURN JBC$_NOSUCHQUE;
5445    6447   2          END;
5446    6448   2
5447    6449   2
5448    6450   2      [SMR$K_REDIRECT]:
5449    6451   3          BEGIN
5450    6452   3          IF CH$RCHAR(MBX[ACM$T_QUEUE_2]) EQL 0
5451    6453   3          THEN
5452    6454   4              BEGIN
5453    6455   4              LOCAL
5454    6456   4                  STATUS;
5455    6457   4
5456    6458   4              STATUS = PROCESS_ONE_OPTION(
5457    6459   4                  SJC$_QUEUE,
5458    6460   4                  CH$RCHAR(MBX[ACM$T_QUEUE_1]),
5459    6461   4                  MBX[ACM$T_QUEUE_1]+1);
5460    6462   4              IF NOT .STATUS THEN RETURN .STATUS;
5461    6463   4              IF NOT FIND_QUEUE(VALUE_QUEUE; SQX_N, SQE, SMQ_N, SMQ)
5462    6464   4                  THEN RETURN JBC$_NOSUCHQUE;
5463    6465   4              PROC_ROUTINE = SJC_DEASSIGN_QUEUE;
5464    6466   4              END
5465    6467   3          ELSE
5466    6468   4              BEGIN
5467    6469   4              LOCAL
5468    6470   4                  STATUS_1,
5469    6471   4                  STATUS_2;
5470    6472   4
5471    6473   4              STATUS_1 = PROCESS_ONE_OPTION(
5472    6474   4                  SJC$_DESTINATION_QUEUE,
5473    6475   4                  CH$RCHAR(MBX[ACM$T_QUEUE_1]),
5474    6476   4                  MBX[ACM$T_QUEUE_1]+1);
5475    6477   4              IF NOT .STATUS_1 THEN RETURN .STATUS_1;
5476    6478   4              STATUS_2 = PROCESS_ONE_OPTION(
5477    6479   4                  SJC$_QUEUE,
5478    6480   4                  CH$RCHAR(MBX[ACM$T_QUEUE_2]),
5479    6481   4                  MBX[ACM$T_QUEUE_2]+1);
5480    6482   4              IF NOT .STATUS_2 THEN RETURN .STATUS_2;
5481    6483   4              IF NOT FIND_QUEUE(VALUE_QUEUE; SQX_N, SQE, SMQ_N, SMQ)
5482    6484   4                  THEN RETURN JBC$_NOSUCHQUE;
5483    6485   3              END;
5484    6486   2          END;
5485    6487   2
5486    6488   2
5487    6489   2      [SMR$K_RELEASE]:
5488    6490   3          BEGIN
5489    6491   3          VALUE_ENTRY_NUMBER = .MBX[ACM$W_ENTRY_NUMBER];
```

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V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

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[JOBCTL.SRC]SNDJBC.B32;1

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```
5490   6492   3        ITEM_PRESENT[SJC$_ENTRY_NUMBER] = TRUE;
5491   6493   3        ITEM_PRESENT[SJC$_NO_HOLD] = TRUE;
5492   6494   2        END;
5493   6495   2
5494   6496   2
5495   6497   2    [SMR$K_RMVJOB]:
5496   6498   3        BEGIN
5497   6499   3        VALUE_ENTRY_NUMBER = .MBX[ACM$W_ENTRY_NUMBER];
5498   6500   3        ITEM_PRESENT[SJC$_ENTRY_NUMBER] = TRUE;
5499   6501   2        END;
5500   6502   2
5501   6503   2
5502   6504   2    [SMR$K_START]:
5503   6505   3        BEGIN
5504   6506   3        IF .SMQ[SMQ$V_PAUSED] AND .SMQ[SMQ$B_CURRENT_JOB_COUNT] NEQ 0
5505   6507   3        THEN
5506   6508   4            BEGIN
5507   6509   4            LOCAL
5508   6510   4                STATUS;
5509   6511   4
5510   6512   4            STATUS = PROCESS_SNDSMB_OPTIONS(
5511   6513   4                MBX[ACM$T_QUE_OPT],
5512   6514   4                SMO$K_NEXTJOB, SMO$K_SPCCNT);
5513   6515   4            IF NOT .STATUS THEN RETURN .STATUS;
5514   6516   4            END
5515   6517   3        ELSE
5516   6518   4            BEGIN
5517   6519   4            LOCAL
5518   6520   4                STATUS;
5519   6521   4
5520   6522   4            STATUS = PROCESS_SNDSMB_OPTIONS(
5521   6523   4                MBX[ACM$T_QUE_OPT],
5522   6524   4                SMO$K_CURFORM, SMO$K_NODISWAP);
5523   6525   4            IF NOT .STATUS THEN RETURN .STATUS;
5524   6526   3            END;
5525   6527   2        END;
5526   6528   2
5527   6529   2
5528   6530   2    [SMR$K_SYNCJOB]:
5529   6531   3        BEGIN
5530   6532   3        IF .MBX[ACM$W_ENTRY_NUMBER] NEQ 0
5531   6533   3        THEN
5532   6534   4            BEGIN
5533   6535   4            VALUE_ENTRY_NUMBER = .MBX[ACM$W_ENTRY_NUMBER];
5534   6536   4            ITEM_PRESENT[SJC$_ENTRY_NUMBER] = TRUE;
5535   6537   3            END;
5536   6538   3
5537   6539   3        IF CH$RCHAR(MBX[ACM$T_JOBNAME]) NEQ 0
5538   6540   3        THEN
5539   6541   4            BEGIN
5540   6542   4            LOCAL
5541   6543   4                STATUS;
5542   6544   4
5543   6545   4            STATUS = PROCESS_ONE_OPTION(
5544   6546   4                SJC$_JOB_NAME,
5545   6547   4                CH$RCHAR(MBX[ACM$T_JOBNAME]),
5546   6548   4                MBX[ACM$T_JOBNAME]+1);
```

```
: 5547    6549  4            IF NOT .STATUS THEN RETURN .STATUS;
: 5548    6550  3            END;
: 5549    6551  2        END;
: 5550    6552  2
: 5551    6553  2
: 5552    6554  2        [INRANGE]:
: 5553    6555  2            0;
: 5554    6556  2
: 5555    6557  2
: 5556    6558  2        TES;
: 5557    6559  2
: 5558    6560  2
: 5559    6561  2 ! Dispatch to execute the request.
: 5560    6562  2 !
: 5561    6563  2 (.PROC_ROUTINE)(.SQX_N, .SQE, .SMQ_N, .SMQ)
: 5562    6564  1 END;
```

```
                                            02591          .BLKB  3
                           02  F3  8C       02594  SEARCH_REQUIRED:
                                                           .BYTE  -116, -13, 2
                                            02597          .BLKB  1
                           02  F3  8F       02598  QUEUE_PRESENT:
                                                           .BYTE  -113, -13, 2
                                            0259B          .BLKB  1
                 66  66  56  56  56  56     0259C  MINIMUM_LENGTH:
                                                           .BYTE  86, 86, 86, 86, 102, 102
                                        00  025A2          .BYTE  0
     58  56  58  58  46  76  56  86  56  025A3           .BYTE  86, -122, 86, 118, 70, 88, 88, 86, 88
                                        00  025AC          .BYTE  0
                                        62  025AD          .BYTE  98
                                            025AE          .BLKB  2
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 025B0  PROCESSING_ROUTINE:
                                                           .ADDRESS SJC_CREATE_QUEUE, SJC_DELETE_QUEUE, -
                                                                    SJC_START_QUEUE, SJC_PAUSE_QUEUE, -
                                                                    SJC_MERGE_QUEUE, SJC_ASSIGN_QUEUE
                                       00#  025C8          .BYTE  0[4]
00000000' C0000000' 00000000' 00000000' 00000000' 00000000' 025CC  .ADDRESS SJC_STOP_QUEUE, SJC_ENTER_FILE, -
           00000000' 00000000' 00000000' 025E4                     SJC_CREATE_JOB, SJC_ADD_FILE, -
                                                                    SJC_CLOSE_JOB, SJC_DELETE_JOB, -
                                                                    SJC_ALTER_JOB, SJC_ABORT_JOB, -
                                                                    SJC_ALTER_JOB
                                       00#  025F0          .BYTE  0[4]
                              00000000'  025F4             .ADDRESS SJC_SYNCHRONIZE_JOB
```

```
                                   OFFC  00000     .ENTRY  SNDSMB_SERVICE, Save R2,R3,R4,R5,R6,R7,R8,-  : 6150
                                                           R9,R10,R11
                    5E               04  C2  00002  SUBL2   #4, SP
                    51  00000000'    EF  D0  00005  MOVL    MBX, R1                                     : 6257
           0046     8F           FA  A1  B1  0000C  CMPW    -6(R1), #70
                                     2A  1F  00012  BLSSU   3$
                    50           44  A1  3C  00014  MOVZWL  68(R1), R0                                  : 6264
           00000000'  EF           50  D0  00018  MOVL    R0, DIAG_TRACE+4
                    11               50  B1  0001F  CMPW    R0, #17                                     : 6268
```

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V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

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```
                                  06  1A 00022         BGTRU   1$
                            90 AF40  D5 00024         TSTL    PROCESSING_ROUTINE[R0]
                                  08  12 00028         BNEQ    2$
                   50 00048068  8F  D0 0002A 1$:       MOVL    #295016, R0
                                  04 00031              RET
                   52      FF6D CF40  9A 00032 2$:      MOVZBL  MINIMUM_LENGTH[R0], R2
                        FA  A1      52  B1 00038         CMPW    R2, -6(R1)
                                  08  1B 0003C         BLEQU   4$
                   50 00048100  8F  D0 0003E 3$:       MOVL    #295168, R0
                                  04 00045              RET
                   00000000'EF40  D6 00046 4$:         INCL    SNDSMB_COUNT[R0]
                   00000000'  EF  B5 0004D            TSTW    QUEUE_FAB+2
                                  08  12 00053         BNEQ    5$
                   50 00048078  8F  D0 00055         MOVL    #295032, R0
                                  04 0005C              RET
05A0    8F     00000000G EF      00  FB 0005D 5$:       CALLS   #0, LOCK_QUEUE_FILE
               00        6E      00  2C 00064         MOVC5   #0, (SP), #0, #1440, VALUE_STORAGE_BASE
                   00000000'  EF     0006B
               51 00000000'  EF  D0 00070         MOVL    MBX, R1
               50         44  A1  3C 00077         MOVZWL  68(R1), R0
               6E     FF38 CF40  D0 0007B         MOVL    PROCESSING_ROUTINE[R0], PROC_ROUTINE
          14     FF1A  CF      50  E1 00081         BBC     R0, QUEUE_PRESENT, 6$
                         47  A1  9F 00087         PUSHAB  71(R1)
                         7E   46  A1  9A 0008A         MOVZBL  70(R1), -(SP)
                         7E   86  8F  9A 0008E         MOVZBL  #134, -(SP)
                   F849  CF      03  FB 00092         CALLS   #3, PROCESS_ONE_OPTION
                         01      50  E8 00097         BLBS    STATUS, 6$
                                  04 0009A              RET
               50 00000000'  EF  D0 0009B 6$:       MOVL    MBX, R0
               51         44  A0  3C 000A2         MOVZWL  68(R0), R1
          13     FEF1  CF      51  E1 000A6         BBC     R1, SEARCH_REQUIRED, 7$
                   00000000'  EF  9F 000AC         PUSHAB  VALUE_QUEUE
               00000000G  EF      01  FB 000B2         CALLS   #1, FIND_QUEUE
                         03      50  E8 000B9         BLBS    R0, 7$
                               0168  31 000BC         BRW     25$
               56 00000000'  EF  D0 000BF 7$:       MOVL    MBX, R6
               11         00      44  A6  AF 000C6         CASEW   68(R6), #0, #17
      01E6   018F    01E6       00B9     000CB 8$:    .WORD   19$-8$,-
      01E6   01E6    00EF       00C3     000D3         37$-8$,-
      01E6   0038    0082       0088     000DB         30$-8$,-
      0164   0024    0067       017D     000E3         37$-8$,-
                     01B9       01E6     000EB         20$-8$,-
                                                       21$-8$,-
                                                       37$-8$,-
                                                       37$-8$,-
                                                       17$-8$,-
                                                       15$-8$,-
                                                       12$-8$,-
                                                       37$-8$,-
                                                       27$-8$,-
                                                       13$-8$,-
                                                       9$-8$,-
                                                       26$-8$,-
                                                       37$-8$,-
                                                       34$-8$
                         03      0C  AB  E9 000EF 9$:   BLBC    12(SMQ), 10$
                               0152  31 000F3         BRW     27$
```

```
6272
6275
6280
6282
6284
6289
6290
6295
6296
6301
6310
6309
6311
6317
6319
6326
6332
```

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```
                              7E        72    8F    9A 000F6 10$:    MOVZBL   #114, -(SP)                                      6344
                              7E        70    8F    9A 000FA         MOVZBL   #112, -(SP)
                                        56    A6    9F 000FE 11$:    PUSHAB   86(R6)
                                              7E    11 00101         BRB      18$
                        57 00000000'     EF    D0 00103 12$:         MOVL     MBX_END, R7                                      6358
00000000'  EF    DC    A7    24    28 0010A                          MOVC3    #36, -36(R7), VALUE_FILE_IDENTIFICATION
                        50    DA    A7    9E 00113                    MOVAB    -38(R7), R0                                      6361
          00000000'     EF    60    B0 00117                         MOVW     (R0), VALUE_FILE_SPECIFICATION
                        51          60    3C 0011E                   MOVZWL   (R0), R1                                         6363
00000000'  EF          50    51    C3 00121                          SUBL3    R1, R0, VALUE_FILE_SPECIFICATION+2
                              0B    DD 00129                         PUSHL    #11                                             6365
                              01    DD 0012B                         PUSHL    #1
                                    76    A6    9F 0012D             PUSHAB   118(R6)
                                    4F          11 00130             BRB      18$
00000000'  EF          56    A6    3C 00132 13$:                     MOVZWL   86(R6), VALUE_ENTRY_NUMBER                       6376
                              39    DD 0013A                         PUSHL    #57                                             6378
                              0C    DD 0013C                         PUSHL    #12
                                    58    A6    9F 0013E             PUSHAB   88(R6)
                        FCF2   CF    03    FB 00141                  CALLS    #3, PROCESS_SNDSMB_OPTIONS
                              03          50    E9 00146             BLBC     STATUS, 14$                                      6380
                                    0104  31 00149                   BRW      28$
                                    04 0014C 14$:                    RET                                                      6381
                              39    DD 0014D 15$:                    PUSHL    #57                                             6391
                              20    DD 0014F                         PUSHL    #32
                                    AB    11 00151 16$:              BRB      11$
                        57 00000000'     EF    D0 00153 17$:         MOVL     MBX_END, R7                                      6404
00000000'  EF    DC    A7    24    28 0015A                          MOVC3    #36, -36(R7), VALUE_FILE_IDENTIFICATION
                        50    DA    A7    9E 00163                    MOVAB    -38(R7), R0                                      6407
          00000000'     EF    60    B0 00167                         MOVW     (R0), VALUE_FILE_SPECIFICATION
                        51          60    3C 0016E                   MOVZWL   (R0), R1                                         6409
00000000'  EF          50    51    C3 00171                          SUBL3    R1, R0, VALUE_FILE_SPECIFICATION+2
                              39    DD 00179                         PUSHL    #57                                             6411
                              01    DD 0017B                         PUSHL    #1
                                    0086  C6    9F 0017D             PUSHAB   134(R6)
                                    00F9  31 00181 18$:              BRW      33$
                              7E    5B    8F    9A 00184 19$:        MOVZBL   #91, -(SP)                                      6423
                              7E    40    8F    9A 00188             MOVZBL   #64, -(SP)
                                    C3          11 0018C             BRB      16$
                                    47    A6    9F 0018E 20$:        PUSHAB   71(R6)                                          6438
                              7E    46    A6    9A 00191             MOVZBL   70(R6), -(SP)                                   6437
                                    1A    DD 00195                   PUSHL    #26
                        F744   CF    03    FB 00197                  CALLS    #3, PROCESS_ONE_OPTION
                              74          50    E9 0019C             BLBC     STATUS_1, 23$                                    6439
                        50 00000000'     EF    D0 0019F             MOVL     MBX, R0                                          6443
                                    57    A0    9F 001A6             PUSHAB   87(R0)
                              7E    56    A0    9A 001A9             MOVZBL   86(R0), -(SP)                                   6442
                              7E    86    8F    9A 001AD             MOVZBL   #134, -(SP)
                        F72A   CF    03    FB 001B1                  CALLS    #3, PROCESS_ONE_OPTION
                              5E          50    E8 001B6             BLBS     STATUS_2, 24$                                    6444
                                    04 001B9                         RET                                                      6445
                              50    47    A6    9E 001BA 21$:        MOVAB    71(R6), R0                                      6461
                                    56    A6    95 001BE             TSTB     86(R6)                                          6452
                                    29    12 001C1                   BNEQ     22$
                                    50    DD 001C3                   PUSHL    R0
                              7E    46    A6    9A 001C5             MOVZBL   70(R6), -(SP)                                   6461
                              7E    86    8F    9A 001C9             MOVZBL   #134, -(SP)                                     6460
                        F70E   CF    03    FB 001CD                  CALLS    #3, PROCESS_ONE_OPTION
```

```
                        3E          50  E9 001D2          BLBC    STATUS, 23$                              6462
                00000000' EF  9F 001D5          PUSHAB  VALUE_QUEUE                              6463
        00000000G EF     01  FB 001DB          CALLS   #1, FIND_QUEUE
                        42          50  E9 001E2          BLBC    R0, 25$
                        6E     EOF5 CF  9E 001E5          MOVAB   SJC_DEASSIGN_QUEUE, PROC_ROUTINE        6465
                                    6C  11 001EA          BRB     29$                                      6452
                                    50  DD 001EC 22$:     PUSHL   R0                                       6476
                        7E          46  A6  9A 001EE          MOVZBL  70(R6), -(SP)                            6475
                                    1A  DD 001F2          PUSHL   #26
                F6E7    CF          03  FB 001F4          CALLS   #3, PROCESS_ONE_OPTION
                        17          50  E9 001F9          BLBC    STATUS_1, 23$                            6477
                        50 00000000' EF  D0 001FC          MOVL    MBX, R0                                  6481
                                    57  A0  9F 00203          PUSHAB  87(R0)
                        7E          56  A0  9A 00206          MOVZBL  86(R0), -(SP)                            6480
                        7E          86  8F  9A 0020A          MOVZBL  #134, -(SP)
                F6CD    CF          03  FB 0020E          CALLS   #3, PROCESS_ONE_OPTION
                        01          50  E8 00213 23$:     BLBS    STATUS_2, 24$                            6482
                                    04 00216          RET
                00000000' EF  9F 00217 24$:     PUSHAB  VALUE_QUEUE                               6483
        00000000G EF     01  FB 0021D          CALLS   #1, FIND_QUEUE
                        31          50  E8 00224          BLBS    R0, 29$
                        50 00048038 8F  D0 00227 25$:     MOVL    #294968, R0                              6484
                                    04 0022E          RET
        00000000' EF     56  A6  3C 0022F 26$:     MOVZWL  86(R6), VALUE_ENTRY_NUMBER               6491
        00000000' EF     40  8F  88 00237          BISB2   #64, ITEM_PRESENT+3                       6492
        00000000' EF     01  88 0023F          BISB2   #1, ITEM_PRESENT+9                        6493
                                    69  11 00246          BRB     37$                                      6326
        00000000' EF     56  A6  3C 00248 27$:     MOVZWL  86(R6), VALUE_ENTRY_NUMBER               6499
        00000000' EF     40  8F  88 00250 28$:     BISB2   #64, ITEM_PRESENT+3                       6500
                                    57  11 00258 29$:     BRB     37$                                      6326
                        50          56  A6  9E 0025A 30$:     MOVAB   86(R6), R0                               6513
        10          10  AB          02  E1 0025E          BBC     #2, 16(SMQ), 31$                         6506
                                0115 CB  95 00263          TSTB    277(SMQ)
                                    0A  13 00267          BEQL    31$
                        7E          62  8F  9A 00269          MOVZBL  #98, -(SP)                               6513
                        7E          60  8F  9A 0026D          MOVZBL  #96, -(SP)
                                    08  11 00271          BRB     32$
                        7E          5B  8F  9A 00273 31$:     MOVZBL  #91, -(SP)                               6523
                        7E          40  8F  9A 00277          MOVZBL  #64, -(SP)
                                    50  DD 0027B 32$:     PUSHL   R0
                FBB6    CF          03  FB 0027D 33$:     CALLS   #3, PROCESS_SNDSMB_OPTIONS
                                    2A  11 00282          BRB     36$                                      6525
                        56          A6  B5 00284 34$:     TSTW    86(R6)                                   6532
                                    10  13 00287          BEQL    35$
        00000000' EF     56  A6  3C 00289          MOVZWL  86(R6), VALUE_ENTRY_NUMBER               6535
        00000000' EF     40  8F  88 00291          BISB2   #64, ITEM_PRESENT+3                       6536
                                    58  A6  95 00299 35$:     TSTB    88(R6)                                   6539
                                    13  13 0029C          BEQL    37$
                        59          A6  9F 0029E          PUSHAB  89(R6)                                   6548
                        7E          58  A6  9A 002A1          MOVZBL  88(R6), -(SP)                            6547
                        7E          4F  8F  9A 002A5          MOVZBL  #79, -(SP)
                F632    CF          03  FB 002A9          CALLS   #3, PROCESS_ONE_OPTION
                        0A          50  E9 002AE          BLBC    STATUS, 38$                              6549
                        7E          5A  7D 002B1 37$:     MOVQ    SMQ_N, -(SP)                             6563
                        7E          58  7D 002B4          MOVQ    SQX_N, -(SP)
        10          BE          04  FB 002B7          CALLS   #4, @PROC_ROUTINE
                                    04 002BB 38$:     RET                                              6564
```

; Routine Size: 700 bytes,   Routine Base: CODE + 25F8

```
: 5564        6565   1 ROUTINE PROCESS_SNDJBC_ITEM_LIST=
: 5565        6566   1
: 5566        6567   1 !++
: 5567        6568   1 !
: 5568        6569   1 ! FUNCTIONAL DESCRIPTION:
: 5569        6570   1 !       This routine processes the item list of a $SNDJBC service into internal
: 5570        6571   1 !       data structures.
: 5571        6572   1 !
: 5572        6573   1 ! INPUT PARAMETERS:
: 5573        6574   1 !       NONE
: 5574        6575   1 !
: 5575        6576   1 ! IMPLICIT INPUTS:
: 5576        6577   1 !       MBX             - Pointer to buffered mailbox message.
: 5577        6578   1 !
: 5578        6579   1 ! OUTPUT PARAMETERS:
: 5579        6580   1 !       NONE
: 5580        6581   1 !
: 5581        6582   1 ! IMPLICIT OUTPUTS:
: 5582        6583   1 !       Values in the item list in internal storage.
: 5583        6584   1 !
: 5584        6585   1 ! ROUTINE VALUE:
: 5585        6586   1 !       Completion status.
: 5586        6587   1 !
: 5587        6588   1 ! SIDE EFFECTS:
: 5588        6589   1 !       NONE
: 5589        6590   1 !
: 5590        6591   1 !--
: 5591        6592   1
: 5592        6593   2 BEGIN
: 5593        6594   2 LOCAL
: 5594        6595   2         VALUE_CURSOR:    REF BBLOCK,      ! Cursor over item list
: 5595        6596   2         VALID_ITEMS:     REF BITVECTOR;   ! Pointer to mask of valid item codes
: 5596        6597   2
: 5597        6598   2
: 5598        6599   2 MACRO
: 5599   M    6600   2         BOOLEAN_VECTOR[]=
: 5600   M    6601   2             BITVECTOR[MAX_SNDJBC_ITEM+1] PSECT(CODE) ALIGN(0)
: 5601        6602   2             PRESET(BOOLEAN_VECTOR_1(%REMAINING)) %,
: 5602        6603   2
: 5603   M    6604   2         BOOLEAN_VECTOR_1[A]=
: 5604        6605   2             [A] = TRUE %;
: 5605        6606   2
: 5606        6607   2
: 5607        6608   2 OWN
: 5608        6609   2         NO_BITS:
: 5609        6610   2             BITVECTOR[MAX_SNDJBC_ITEM+1] PSECT(CODE) ALIGN(0) INITIAL(0),
: 5610        6611   2
: 5611        6612   2         QUEUE_BIT:
: 5612   P    6613   2             BOOLEAN_VECTOR(
: 5613        6614   2                 SJC$_QUEUE),
: 5614        6615   2
: 5615        6616   2         QUEUE_DEST_QUEUE_BITS:
: 5616   P    6617   2             BOOLEAN_VECTOR(
: 5617   P    6618   2                 SJC$_QUEUE,
: 5618        6619   2                 SJC$_DESTINATION_QUEUE),
: 5619        6620   2
: 5620        6621   2         QUEUE_ENTRY_NUMBER_BITS:
```

```
: 5621      P 6622   2              BOOLEAN_VECTOR(
: 5622      P 6623   2                   SJC$_QUEUE,
: 5623        6624   2                   SJC$_ENTRY_NUMBER),
: 5624        6625   2
: 5625        6626   2          ABORT_JOB_OPTIONS:
: 5626      P 6627   2              BOOLEAN_VECTOR(
: 5627      P 6628   2                   SJC$_QUEUE,
: 5628      P 6629   2                   SJC$_DESTINATION_QUEUE,
: 5629      P 6630   2                   SJC$_ENTRY_NUMBER,
: 5630      P 6631   2                   SJC$_HOLD,                     SJC$_NO_HOLD,
: 5631      P 6632   2                   SJC$_PRIORITY,
: 5632        6633   2                   SJC$_REQUEUE),
: 5633        6634   2
: 5634        6635   2          ADD_FILE_OPTIONS:
: 5635      P 6636   2              BOOLEAN_VECTOR(
: 5636      P 6637   2                   SJC$_FILE_IDENTIFICATION,
: 5637      P 6638   2                   SJC$_DELETE_FILE,             SJC$_NO_DELETE_FILE,
: 5638      P 6639   2                   SJC$_DOUBLE_SPACE,            SJC$_NO_DOUBLE_SPACE,
: 5639      P 6640   2                   SJC$_FILE_BURST,              SJC$_NO_FILE_BURST,
: 5640      P 6641   2                   SJC$_FILE_COPIES,
: 5641      P 6642   2                   SJC$_FILE_FLAG,               SJC$_NO_FILE_FLAG,
: 5642      P 6643   2                   SJC$_FILE_SETUP_MODULES,      SJC$_NO_FILE_SETUP_MODULES,
: 5643      P 6644   2                   SJC$_FILE_TRAILER,            SJC$_NO_FILE_TRAILER,
: 5644      P 6645   2                   SJC$_FIRST_PAGE,              SJC$_NO_FIRST_PAGE,
: 5645      P 6646   2                   SJC$_LAST_PAGE,               SJC$_NO_LAST_PAGE,
: 5646      P 6647   2                   SJC$_PAGE_HEADER,             SJC$_NO_PAGE_HEADER,
: 5647      P 6648   2                   SJC$_PAGINATE,                SJC$_NO_PAGINATE,
: 5648        6649   2                   SJC$_PASSALL,                 SJC$_NO_PASSALL),
: 5649        6650   2
: 5650        6651   2          ALTER_JOB_OPTIONS:
: 5651      P 6652   2              BOOLEAN_VECTOR(
: 5652      P 6653   2                   SJC$_QUEUE,
: 5653      P 6654   2                   SJC$_ENTRY_NUMBER,
: 5654      P 6655   2                   SJC$_AFTER_TIME,              SJC$_NO_AFTER_TIME,
: 5655      P 6656   2                   SJC$_CHARACTERISTIC_NAME,     SJC$_NO_CHARACTERISTICS,
: 5656      P 6657   2                   SJC$_CHARACTERISTIC_NUMBER,
: 5657      P 6658   2                                                 SJC$_NO_CHECKPOINT_DATA,
: 5658      P 6659   2                   SJC$_CLI,                     SJC$_NO_CLI,
: 5659      P 6660   2                   SJC$_CPU_LIMIT,               SJC$_NO_CPU_LIMIT,
: 5660      P 6661   2                                                 SJC$_NO_DELETE_FILE,
: 5661      P 6662   2                   SJC$_DESTINATION_QUEUE,
: 5662      P 6663   2                   SJC$_DOUBLE_SPACE,            SJC$_NO_DOUBLE_SPACE,
: 5663      P 6664   2                   SJC$_FILE_BURST,              SJC$_NO_FILE_BURST,
: 5664      P 6665   2                   SJC$_FILE_COPIES,
: 5665      P 6666   2                   SJC$_FILE_FLAG,               SJC$_NO_FILE_FLAG,
: 5666      P 6667   2                   SJC$_FILE_SETUP_MODULES,      SJC$_NO_FILE_SETUP_MODULES,
: 5667      P 6668   2                   SJC$_FILE_TRAILER,            SJC$_NO_FILE_TRAILER,
: 5668      P 6669   2                   SJC$_FIRST_PAGE,              SJC$_NO_FIRST_PAGE,
: 5669      P 6670   2                   SJC$_FORM_NAME,
: 5670      P 6671   2                   SJC$_FORM_NUMBER,
: 5671      P 6672   2                   SJC$_HOLD,                    SJC$_NO_HOLD,
: 5672      P 6673   2                   SJC$_JOB_COPIES,
: 5673      P 6674   2                   SJC$_JOB_NAME,
: 5674      P 6675   2                   SJC$_LAST_PAGE,               SJC$_NO_LAST_PAGE,
: 5675      P 6676   2                   SJC$_LOG_DELETE,              SJC$_NO_LOG_DELETE,
: 5676      P 6677   2                   SJC$_LOG_QUEUE,
: 5677      P 6678   2                   SJC$_LOG_SPECIFICATION,       SJC$_NO_LOG_SPECIFICATION,
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;  5678      P 6679   2                SJC$_LOG_SPOOL,                         SJC$_NO_LOG_SPOOL,
;  5679      P 6680   2                SJC$_LOWERCASE,                         SJC$_NO_LOWERCASE,
;  5680      P 6681   2                SJC$_NOTE,                              SJC$_NO_NOTE,
;  5681      P 6682   2                SJC$_NOTIFY,                            SJC$_NO_NOTIFY,
;  5682      P 6683   2                SJC$_OPERATOR_REQUEST,                  SJC$_NO_OPERATOR_REQUEST,
;  5683      P 6684   2                SJC$_PAGE_HEADER,                       SJC$_NO_PAGE_HEADER,
;  5684      P 6685   2                SJC$_PAGINATE,                          SJC$_NO_PAGINATE,
;  5685      P 6686   2                SJC$_PARAMETER_1,                       SJC$_NO_PARAMETERS,
;  5686      P 6687   2                SJC$_PARAMETER_2,
;  5687      P 6688   2                SJC$_PARAMETER_3,
;  5688      P 6689   2                SJC$_PARAMETER_4,
;  5689      P 6690   2                SJC$_PARAMETER_5,
;  5690      P 6691   2                SJC$_PARAMETER_6,
;  5691      P 6692   2                SJC$_PARAMETER_7,
;  5692      P 6693   2                SJC$_PARAMETER_8,
;  5693      P 6694   2                SJC$_PASSALL,                           SJC$_NO_PASSALL,
;  5694      P 6695   2                SJC$_PRIORITY,
;  5695      P 6696   2                SJC$_RESTART,                           SJC$_NO_RESTART,
;  5696      P 6697   2                SJC$_WSDEFAULT,                         SJC$_NO_WSDEFAULT,
;  5697      P 6698   2                SJC$_WSEXTENT,                          SJC$_NO_WSEXTENT,
;  5698        6699   2                SJC$_WSQUOTA,                           SJC$_NO_WSQUOTA),
;  5699        6700
;  5700        6701   2            ALTER_QUEUE_OPTIONS:
;  5701      P 6702   2                BOOLEAN_VECTOR(
;  5702      P 6703   2                SJC$_QUEUE,
;  5703      P 6704   2                SJC$_BASE_PRIORITY,
;  5704      P 6705   2                SJC$_CHARACTERISTIC_NAME,               SJC$_NO_CHARACTERISTICS,
;  5705      P 6706   2                SJC$_CHARACTERISTIC_NUMBER,
;  5706      P 6707   2                SJC$_CPU_DEFAULT,                       SJC$_NO_CPU_DEFAULT,
;  5707      P 6708   2                SJC$_CPU_LIMIT,                         SJC$_NO_CPU_LIMIT,
;  5708      P 6709   2                SJC$_FILE_BURST,                        SJC$_NO_FILE_BURST,
;  5709      P 6710   2                SJC$_FILE_BURST_ONE,
;  5710      P 6711   2                SJC$_FILE_FLAG,                         SJC$_NO_FILE_FLAG,
;  5711      P 6712   2                SJC$_FILE_FLAG_ONE,
;  5712      P 6713   2                SJC$_FILE_TRAILER,                      SJC$_NO_FILE_TRAILER,
;  5713      P 6714   2                SJC$_FILE_TRAILER_ONE,
;  5714      P 6715   2                SJC$_FORM_NAME,
;  5715      P 6716   2                SJC$_FORM_NUMBER,
;  5716      P 6717   2                SJC$_GENERIC_SELECTION,                 SJC$_NO_GENERIC_SELECTION,
;  5717      P 6718   2                SJC$_JOB_BURST,                         SJC$_NO_JOB_BURST,
;  5718      P 6719   2                SJC$_JOB_FLAG,                          SJC$_NO_JOB_FLAG,
;  5719      P 6720   2                SJC$_JOB_LIMIT,
;  5720      P 6721   2                SJC$_JOB_RESET_MODULES,                 SJC$_NO_JOB_RESET_MODULES,
;  5721      P 6722   2                SJC$_JOB_SIZE_MAXIMUM,                  SJC$_NO_JOB_SIZE_MAXIMUM,
;  5722      P 6723   2                SJC$_JOB_SIZE_MINIMUM,                  SJC$_NO_JOB_SIZE_MINIMUM,
;  5723      P 6724   2                SJC$_JOB_SIZE_SCHEDULING,               SJC$_NO_JOB_SIZE_SCHEDULING,
;  5724      P 6725   2                SJC$_JOB_TRAILER,                       SJC$_NO_JOB_TRAILER,
;  5725      P 6726   2                SJC$_OWNER_UIC,
;  5726      P 6727   2                SJC$_PAGINATE,                          SJC$_NO_PAGINATE,
;  5727      P 6728   2                SJC$_PROTECTION,
;  5728      P 6729   2                SJC$_RETAIN_ALL_JOBS,                   SJC$_NO_RETAIN_JOBS,
;  5729      P 6730   2                SJC$_RETAIN_ERROR_JOBS,
;  5730      F 6731   2                SJC$_SWAP,                              SJC$_NO_SWAP,
;  5731      P 6732   2                SJC$_WSDEFAULT,                         SJC$_NO_WSDEFAULT,
;  5732      P 6733   2                SJC$_WSEXTENT,                          SJC$_NO_WSEXTENT,
;  5733        6734   2                SJC$_WSQUOTA,                           SJC$_NO_WSQUOTA),
;  5734        6735   2
```

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: 5735        6736  2          BATCH_CHECKPOINT_OPTIONS:
: 5736    P  6737  2              BOOLEAN_VECTOR(
: 5737       6738  2                  SJC$_CHECKPOINT_DATA),
: 5738       6739  2
: 5739       6740  2          BATCH_SERVICE_OPTIONS:
: 5740    P  6741  2              BOOLEAN_VECTOR(
: 5741    P  6742  2                  SJC$_BATCH_INPUT
: 5742       6743  2                  SJC$_BATCH_OUTPUT),
: 5743       6744  2
: 5744       6745  2          CLOSE_JOB_OPTIONS:
: 5745    P  6746  2              BOOLEAN_VECTOR(
: 5746       6747  2                  SJC$_JOB_STATUS_OUTPUT),
: 5747       6748  2
: 5748       6749  2          CREATE_JOB_OPTIONS:
: 5749    P  6750  2              BOOLEAN_VECTOR(
: 5750    P  6751  2                  SJC$_QUEUE,
: 5751    P  6752  2                  SJC$_ENTRY_NUMBER_OUTPUT,
: 5752    P  6753  2                  SJC$_ACCOUNT_NAME,
: 5753    P  6754  2                  SJC$_AFTER_TIME,                    SJC$_NO_AFTER_TIME,
: 5754    P  6755  2                  SJC$_CHARACTERISTIC_NAME,           SJC$_NO_CHARACTERISTICS,
: 5755    P  6756  2                  SJC$_CHARACTERISTIC_NUMBER,
: 5756    P  6757  2                  SJC$_CLI,                           SJC$_NO_CLI,
: 5757    P  6758  2                  SJC$_CPU_LIMIT,                     SJC$_NO_CPU_LIMIT,
: 5758    P  6759  2                  SJC$_FILE_BURST,                    SJC$_NO_FILE_BURST,
: 5759    P  6760  2                  SJC$_FILE_BURST_ONE,
: 5760    P  6761  2                  SJC$_FILE_FLAG,                     SJC$_NO_FILE_FLAG,
: 5761    P  6762  2                  SJC$_FILE_FLAG_ONE,
: 5762    P  6763  2                  SJC$_FILE_TRAILER,                  SJC$_NO_FILE_TRAILER,
: 5763    P  6764  2                  SJC$_FILE_TRAILER_ONE,
: 5764    P  6765  2                  SJC$_FORM_NAME,
: 5765    P  6766  2                  SJC$_FORM_NUMBER,
: 5766    P  6767  2                  SJC$_HOLD,                          SJC$_NO_HOLD,
: 5767    P  6768  2                  SJC$_JOB_COPIES,
: 5768    P  6769  2                  SJC$_JOB_NAME,
: 5769    P  6770  2                  SJC$_LOG_DELETE,                    SJC$_NO_LOG_DELETE,
: 5770    P  6771  2                  SJC$_LOG_QUEUE,
: 5771    P  6772  2                  SJC$_LOG_SPECIFICATION,             SJC$_NO_LOG_SPECIFICATION,
: 5772    P  6773  2                  SJC$_LOG_SPOOL,                     SJC$_NO_LOG_SPOOL,
: 5773    P  6774  2                  SJC$_LOWERCASE,                     SJC$_NO_LOWERCASE,
: 5774    P  6775  2                  SJC$_NOTE,                          SJC$_NO_NOTE,
: 5775    P  6776  2                  SJC$_NOTIFY,                        SJC$_NO_NOTIFY,
: 5776    P  6777  2                  SJC$_OPERATOR_REQUEST,              SJC$_NO_OPERATOR_REQUEST,
: 5777    P  6778  2                  SJC$_PARAMETER_1,                   SJC$_NO_PARAMETERS,
: 5778    P  6779  2                  SJC$_PARAMETER_2,
: 5779    P  6780  2                  SJC$_PARAMETER_3,
: 5780    P  6781  2                  SJC$_PARAMETER_4,
: 5781    P  6782  2                  SJC$_PARAMETER_5,
: 5782    P  6783  2                  SJC$_PARAMETER_6,
: 5783    P  6784  2                  SJC$_PARAMETER_7,
: 5784    P  6785  2                  SJC$_PARAMETER_8,
: 5785    P  6786  2                  SJC$_PRIORITY,
: 5786    P  6787  2                  SJC$_RESTART,                       SJC$_NO_RESTART,
: 5787    P  6788  2                  SJC$_UIC,
: 5788    P  6789  2                  SJC$_USERNAME,
: 5789    P  6790  2                  SJC$_USER_IDENTIFICATION,
: 5790    P  6791  2                  SJC$_WSDEFAULT,                     SJC$_NO_WSDEFAULT,
: 5791    P  6792  2                  SJC$_WSEXTENT,                      SJC$_NO_WSEXTENT,
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 5792       6793  2                    SJC$_WSQUOTA,                      SJC$_NO_WSQUOTA),
 5793       6794
 5794       6795  2            CREATE_QUEUE_OPTIONS:
 5795     P 6796  2                BOOLEAN_VECTOR(
 5796     P 6797  2                    SJC$_QUEUE,
 5797     P 6798  2                    SJC$_BASE_PRIORITY,
 5798     P 6799  2                    SJC$_BATCH,                        SJC$_NO_BATCH,
 5799     P 6800  2                    SJC$_CHARACTERISTIC_NAME,          SJC$_NO_CHARACTERISTICS,
 5800     P 6801  2                    SJC$_CHARACTERISTIC_NUMBER,
 5801     P 6802  2                    SJC$_CPU_DEFAULT,                  SJC$_NO_CPU_DEFAULT,
 5802     P 6803  2                    SJC$_CPU_LIMIT,                    SJC$_NO_CPU_LIMIT,
 5803     P 6804  2                    SJC$_CREATE_START,
 5804     P 6805  2                    SJC$_DEVICE_NAME,
 5805     P 6806  2                    SJC$_FILE_BURST,                   SJC$_NO_FILE_BURST,
 5806     P 6807  2                    SJC$_FILE_BURST_ONE,
 5807     P 6808  2                    SJC$_FILE_FLAG,                    SJC$_NO_FILE_FLAG,
 5808     P 6809  2                    SJC$_FILE_FLAG_ONE,
 5809     P 6810  2                    SJC$_FILE_TRAILER,                 SJC$_NO_FILE_TRAILER,
 5810     P 6811  2                    SJC$_FILE_TRAILER_ONE,
 5811     P 6812  2                    SJC$_FORM_NAME,
 5812     P 6813  2                    SJC$_FORM_NUMBER,
 5813     P 6814  2                    SJC$_GENERIC_QUEUE,                SJC$_NO_GENERIC_QUEUE,
 5814     P 6815  2                    SJC$_GENERIC_SELECTION,            SJC$_NO_GENERIC_SELECTION,
 5815     P 6816  2                    SJC$_GENERIC_TARGET,
 5816     P 6817  2                    SJC$_JOB_BURST,                    SJC$_NO_JOB_BURST,
 5817     P 6818  2                    SJC$_JOB_FLAG,                     SJC$_NO_JOB_FLAG,
 5818     P 6819  2                    SJC$_JOB_LIMIT,
 5819     P 6820  2                    SJC$_JOB_RESET_MODULES,            SJC$_NO_JOB_RESET_MODULES,
 5820     P 6821  2                    SJC$_JOB_SIZE_MAXIMUM,             SJC$_NO_JOB_SIZE_MAXIMUM,
 5821     P 6822  2                    SJC$_JOB_SIZE_MINIMUM,             SJC$_NO_JOB_SIZE_MINIMUM,
 5822     P 6823  2                    SJC$_JOB_SIZE_SCHEDULING,          SJC$_NO_JOB_SIZE_SCHEDULING,
 5823     P 6824  2                    SJC$_JOB_TRAILER,                  SJC$_NO_JOB_TRAILER,
 5824     P 6825  2                    SJC$_LIBRARY_SPECIFICATION,        SJC$_NO_LIBRARY_SPECIFICATION,
 5825     P 6826  2                    SJC$_OWNER_UIC,
 5826     P 6827  2                    SJC$_PAGINATE,                     SJC$_NO_PAGINATE,
 5827     P 6828  2                    SJC$_PROCESSOR,                    SJC$_NO_PROCESSOR,
 5828     P 6829  2                    SJC$_PROTECTION,
 5829     P 6830  2                    SJC$_RETAIN_ALL_JOBS,              SJC$_NO_RETAIN_JOBS,
 5830     P 6831  2                    SJC$_RETAIN_ERROR_JOBS,
 5831     P 6832  2                    SJC$_SCSNODE_NAME,
 5832     P 6833  2                    SJC$_SWAP,                         SJC$_NO_SWAP,
 5833     P 6834  2                    SJC$_TERMINAL,                     SJC$_NO_TERMINAL,
 5834     P 6835  2                    SJC$_WSDEFAULT,                    SJC$_NO_WSDEFAULT,
 5835     P 6836  2                    SJC$_WSEXTENT,                     SJC$_NO_WSEXTENT,
 5836       6837  2                    SJC$_WSQUOTA,                      SJC$_NO_WSQUOTA),
 5837       6838
 5838       6839  2            DEFINE_CHARACTERISTIC_OPTIONS:
 5839     P 6840  2                BOOLEAN_VECTOR(
 5840     P 6841  2                    SJC$_CHARACTERISTIC_NAME,
 5841       6842  2                    SJC$_CHARACTERISTIC_NUMBER),
 5842       6843
 5843       6844  2            DEFINE_FORM_OPTIONS:
 5844     P 6845  2                BOOLEAN_VECTOR(
 5845     P 6846  2                    SJC$_FORM_NAME,
 5846     P 6847  2                    SJC$_FORM_NUMBER,
 5847     P 6848  2                    SJC$_FORM_DESCRIPTION,
 5848     P 6849  2                    SJC$_FORM_LENGTH,
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  5849    P 6850   2                      SJC$_FORM_MARGIN_BOTTOM,
  5850    P 6851   2                      SJC$_FORM_MARGIN_LEFT,
  5851    P 6852   2                      SJC$_FORM_MARGIN_RIGHT,
  5852    P 6853   2                      SJC$_FORM_MARGIN_TOP,
  5853    P 6854   2                      SJC$_FORM_SETUP_MODULES,          SJC$_NO_FORM_SETUP_MODULES,
  5854    P 6855   2                      SJC$_FORM_SHEET_FEED,             SJC$_NO_FORM_SHEET_FEED,
  5855    P 6856   2                      SJC$_FORM_STOCK,
  5856    P 6857   2                      SJC$_FORM_TRUNCATE,              SJC$_NO_FORM_TRUNCATE,
  5857    P 6858   2                      SJC$_FORM_WIDTH,
  5858    P 6859   2                      SJC$_FORM_WRAP,                  SJC$_NO_FORM_WRAP,
  5859      6860   2                      SJC$_PAGE_SETUP_MODULES,         SJC$_NO_PAGE_SETUP_MODULES),
  5860      6861   2
  5861      6862   2              DEFINE_FORM_REQUIRED:
  5862    P 6863   2                  BOOLEAN_VECTOR(
  5863    P 6864   2                      SJC$_FORM_NAME,
  5864      6865   2                      SJC$_FORM_NUMBER),
  5865      6866   2
  5866      6867   2              DELETE_CHARACTERISTIC_OPTIONS:
  5867    P 6868   2                  BOOLEAN_VECTOR(
  5868      6869   2                      SJC$_CHARACTERISTIC_NAME),
  5869      6870   2
  5870      6871   2              DELETE_FORM_OPTIONS:
  5871    P 6872   2                  BOOLEAN_VECTOR(
  5872      6873   2                      SJC$_FORM_NAME),
  5873      6874   2
  5874      6875   2              ENTER_FILE_OPTIONS:
  5875    P 6876   2                  BOOLEAN_VECTOR(
  5876    P 6877   2                      SJC$_QUEUE,
  5877    P 6878   2                      SJC$_FILE_IDENTIFICATION,
  5878    P 6879   2                      SJC$_ENTRY_NUMBER_OUTPUT,
  5879    P 6880   2                      SJC$_JOB_STATUS_OUTPUT,
  5880    P 6881   2                      SJC$_ACCOUNT_NAME,
  5881    P 6882   2                      SJC$_AFTER_TIME,                 SJC$_NO_AFTER_TIME,
  5882    P 6883   2                      SJC$_BATCH_INPUT,
  5883    P 6884   2                      SJC$_CHARACTERISTIC_NAME,        SJC$_NO_CHARACTERISTICS,
  5884    P 6885   2                      SJC$_CHARACTERISTIC_NUMBER,
  5885    P 6886   2                      SJC$_CLI,                        SJC$_NO_CLI,
  5886    P 6887   2                      SJC$_CPU_LIMIT,                  SJC$_NO_CPU_LIMIT,
  5887    P 6888   2                      SJC$_DELETE_FILE,                SJC$_NO_DELETE_FILE,
  5888    P 6889   2                      SJC$_DOUBLE_SPACE,               SJC$_NO_DOUBLE_SPACE,
  5889    P 6890   2                      SJC$_FILE_BURST,                 SJC$_NO_FILE_BURST,
  5890    P 6891   2                      SJC$_FILE_COPIES,
  5891    P 6892   2                      SJC$_FILE_FLAG,                  SJC$_NO_FILE_FLAG,
  5892    P 6893   2                      SJC$_FILE_SETUP_MODULES,         SJC$_NO_FILE_SETUP_MODULES,
  5893    P 6894   2                      SJC$_FILE_TRAILER,               SJC$_NO_FILE_TRAILER,
  5894    P 6895   2                      SJC$_FIRST_PAGE,                 SJC$_NO_FIRST_PAGE,
  5895    P 6896   2                      SJC$_FORM_NAME,
  5896    P 6897   2                      SJC$_FORM_NUMBER,
  5897    P 6898   2                      SJC$_HOLD,                       SJC$_NO_HOLD,
  5898    P 6899   2                      SJC$_JOB_COPIES,
  5899    P 6900   2                      SJC$_JOB_NAME,
  5900    P 6901   2                      SJC$_LAST_PAGE,                  SJC$_NO_LAST_PAGE,
  5901    P 6902   2                      SJC$_LOG_DELETE,                 SJC$_NO_LOG_DELETE,
  5902    P 6903   2                      SJC$_LOG_QUEUE,
  5903    P 6904   2                      SJC$_LOG_SPECIFICATION,          SJC$_NO_LOG_SPECIFICATION,
  5904    P 6905   2                      SJC$_LOG_SPOOL,                  SJC$_NO_LOG_SPOOL,
  5905    P 6906   2                      SJC$_LOWERCASE,                  SJC$_NO_LOWERCASE,
```

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: 5906    P 6907  2              SJCS_NOTE,                        SJCS_NO_NOTE,
: 5907    P 6908  2              SJCS_NOTIFY,                      SJCS_NO_NOTIFY,
: 5908    P 6909  2              SJCS_OPERATOR_REQUEST,            SJCS_NO_OPERATOR_REQUEST,
: 5909    P 6910  2              SJCS_PAGE_HEADER,                 SJCS_NO_PAGE_HEADER,
: 5910    P 6911  2              SJCS_PAGINATE,                    SJCS_NO_PAGINATE,
: 5911    P 6912  2              SJCS_PARAMETER_1,                 SJCS_NO_PARAMETERS,
: 5912    P 6913  2              SJCS_PARAMETER_2,
: 5913    P 6914  2              SJCS_PARAMETER_3,
: 5914    P 6915  2              SJCS_PARAMETER_4,
: 5915    P 6916  2              SJCS_PARAMETER_5,
: 5916    P 6917  2              SJCS_PARAMETER_6,
: 5917    P 6918  2              SJCS_PARAMETER_7,
: 5918    P 6919  2              SJCS_PARAMETER_8,
: 5919    P 6920  2              SJCS_PASSALL,                     SJCS_NO_PASSALL,
: 5920    P 6921  2              SJCS_PRIORITY,
: 5921    P 6922  2              SJCS_RESTART,                     SJCS_NO_RESTART,
: 5922    P 6923  2              SJCS_UIC,
: 5923    P 6924  2              SJCS_USERNAME,
: 5924    P 6925  2              SJCS_USER_IDENTIFICATION,
: 5925    P 6926  2              SJCS_WSDEFAULT,                   SJCS_NO_WSDEFAULT,
: 5926    P 6927  2              SJCS_WSEXTENT,                    SJCS_NO_WSEXTENT,
: 5927      6928  2              SJCS_WSQUOTA,                     SJCS_NO_WSQUOTA);
: 5928      6929  2
: 5929      6930  2      RESERVED_FUNC_OPTIONS:
: 5930    P 6931  2          BOOLEAN_VECTOR(
: 5931    P 6932  2              SJCS_RESERVED_BOOLEAN_1,          SJCS_RESERVED_BOOLEAN_2,
: 5932    P 6933  2              SJCS_RESERVED_BOOLEAN_3,          SJCS_RESERVED_BOOLEAN_4,
: 5933    P 6934  2              SJCS_RESERVED_INPUT_1,            SJCS_RESERVED_INPUT_2,
: 5934    P 6935  2              SJCS_RESERVED_INPUT_3,            SJCS_RESERVED_INPUT_4,
: 5935      6936  2              SJCS_RESERVED_OUTPUT_1,           SJCS_RESERVED_OUTPUT_2),
: 5936      6937  2
: 5937      6938  2      START_ACCOUNTING_OPTIONS:
: 5938    P 6939  2          BOOLEAN_VECTOR(
: 5939    P 6940  2              SJCS_ACCOUNTING_TYPES,
: 5940      6941  2              SJCS_NEW_VERSION),
: 5941      6942  2
: 5942      6943  2      START_QUEUE_OPTIONS:
: 5943    P 6944  2          BOOLEAN_VECTOR(
: 5944    P 6945  2              SJCS_QUEUE,
: 5945    P 6946  2              SJCS_ALIGNMENT_MASK,
: 5946    P 6947  2              SJCS_ALIGNMENT_PAGES,
: 5947    P 6948  2              SJCS_BASE_PRIORITY,
: 5948    P 6949  2              SJCS_BATCH,                       SJCS_NO_BATCH,
: 5949    P 6950  2              SJCS_CHARACTERISTIC_NAME,         SJCS_NO_CHARACTERISTICS,
: 5950    P 6951  2              SJCS_CHARACTERISTIC_NUMBER,
: 5951    P 6952  2              SJCS_CPU_DEFAULT,                 SJCS_NO_CPU_DEFAULT,
: 5952    P 6953  2              SJCS_CPU_LIMIT,                   SJCS_NO_CPU_LIMIT,
: 5953    P 6954  2              SJCS_DEVICE_NAME,
: 5954    P 6955  2              SJCS_FILE_BURST,                  SJCS_NO_FILE_BURST,
: 5955    P 6956  2              SJCS_FILE_BURST_ONE,
: 5956    P 6957  2              SJCS_FILE_FLAG,                   SJCS_NO_FILE_FLAG,
: 5957    P 6958  2              SJCS_FILE_FLAG_ONE,
: 5958    P 6959  2              SJCS_FILE_TRAILER,                SJCS_NO_FILE_TRAILER,
: 5959    P 6960  2              SJCS_FILE_TRAILER_ONE,
: 5960    P 6961  2              SJCS_FORM_NAME,
: 5961    P 6962  2              SJCS_FORM_NUMBER,
: 5962    P 6963  2              SJCS_GENERIC_QUEUE,               SJCS_NO_GENERIC_QUEUE,
```

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: 5963    P 6964  2              SJC$_GENERIC_SELECTION,            SJC$_NO_GENERIC_SELECTION,          00
: 5964    P 6965  2              SJC$_GENERIC_TARGET,                                                  00
: 5965    P 6966  2              SJC$_JOB_BURST,                   SJC$_NO_JOB_BURST,                  00
: 5966    P 6967  2              SJC$_JOB_FLAG,                    SJC$_NO_JOB_FLAG,                   00
: 5967    P 6968  2              SJC$_JOB_LIMIT,                                                       00
: 5968    P 6969  2              SJC$_JOB_RESET_MODULES,           SJC$_NO_JOB_RESET_MODULES,
: 5969    P 6970  2              SJC$_JOB_SIZE_MAXIMUM,            SJC$_NO_JOB_SIZE_MAXIMUM,
: 5970    P 6971  2              SJC$_JOB_SIZE_MINIMUM,            SJC$_NO_JOB_SIZE_MINIMUM,
: 5971    P 6972  2              SJC$_JOB_SIZE_SCHEDULING,         SJC$_NO_JOB_SIZE_SCHEDULING,
: 5972    P 6973  2              SJC$_JOB_TRAILER,                 SJC$_NO_JOB_TRAILER,
: 5973    P 6974  2              SJC$_LIBRARY_SPECIFICATION,       SJC$_NO_LIBRARY_SPECIFICATION,
: 5974    P 6975  2              SJC$_NEXT_JOB,
: 5975    P 6976  2              SJC$_OWNER_UIC,
: 5976    P 6977  2              SJC$_PAGINATE,                    SJC$_NO_PAGINATE,
: 5977    P 6978  2              SJC$_PROCESSOR,                   SJC$_NO_PROCESSOR,
: 5978    P 6979  2              SJC$_PROTECTION,
: 5979    P 6980  2              SJC$_RETAIN_ALL_JOBS,             SJC$_NO_RETAIN_JOBS,
: 5980    P 6981  2              SJC$_RETAIN_ERROR_JOBS,
: 5981    P 6982  2              SJC$_RELATIVE_PAGE,
: 5982    P 6983  2              SJC$_SCSNODE_NAME,
: 5983    P 6984  2              SJC$_SEARCH_STRING,
: 5984    P 6985  2              SJC$_SWAP,                        SJC$_NO_SWAP,
: 5985    P 6986  2              SJC$_TERMINAL,                    SJC$_NO_TERMINAL,
: 5986    P 6987  2              SJC$_TOP_OF_FILE,
: 5987    P 6988  2              SJC$_WSDEFAULT,                   SJC$_NO_WSDEFAULT,
: 5988    P 6989  2              SJC$_WSEXTENT,                    SJC$_NO_WSEXTENT,
: 5989      6990  2              SJC$_WSQUOTA,                     SJC$_NO_WSQUOTA),
: 5990      6991  2
: 5991      6992  2          START_QUEUE_MANAGER_OPTIONS:
: 5992    P 6993  2              BOOLEAN_VECTOR(
: 5993    P 6994  2                  SJC$_BUFFER_COUNT,
: 5994    P 6995  2                  SJC$_EXTEND_QUANTITY,
: 5995    P 6996  2                  SJC$_NEW_VERSION,
: 5996      6997  2                  SJC$_QUEUE_FILE_SPECIFICATION),
: 5997      6998  2
: 5998      6999  2          STOP_ACCOUNTING_OPTIONS:
: 5999    P 7000  2              BOOLEAN_VECTOR(
: 6000      7001  2                  SJC$_ACCOUNTING_TYPES),
: 6001      7002  2
: 6002      7003  2          SYNCHRONIZE_OPTIONS:
: 6003    P 7004  2              BOOLEAN_VECTOR(
: 6004    P 7005  2                  SJC$_QUEUE,
: 6005    P 7006  2                  SJC$_ENTRY_NUMBER,
: 6006      7007  2                  SJC$_JOB_NAME),
: 6007      7008  2
: 6008      7009  2          WRITE_ACCOUNTING_OPTIONS:
: 6009    P 7010  2              BOOLEAN_VECTOR(
: 6010      7011  2                  SJC$_ACCOUNTING_MESSAGE),
: 6011      7012  2
: 6012      7013  2          VALID_ITEM_TABLE:       VECTOR[MAX_SNDJBC_FUNC+1] PSECT(CODE) PRESET(
: 6013      7014  2              [SJC$_ABORT_JOB]=                 ABORT_JOB_OPTIONS,
: 6014      7015  2              [SJC$_ADD_FILE]=                  ADD_FILE_OPTIONS,
: 6015      7016  2              [SJC$_ALTER_JOB]=                 ALTER_JOB_OPTIONS,
: 6016      7017  2              [SJC$_ALTER_QUEUE]=               ALTER_QUEUE_OPTIONS,
: 6017      7018  2              [SJC$_ASSIGN_QUEUE]=              QUEUE_DEST_QUEUE_BITS,
: 6018      7019  2              [SJC$_BATCH_CHECKPOINT]=          BATCH_CHECKPOINT_OPTIONS,
: 6019      7020  2              [SJC$_BATCH_SERVICE]=             BATCH_SERVICE_OPTIONS,
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; 6020    7021  2            [SJC$_CLOSE_DELETE]=              NO_BITS,
; 6021    7022  2            [SJC$_CLOSE_JOB]=                 CLOSE_JOB_OPTIONS,
; 6022    7023  2            [SJC$_CREATE_JOB]=                CREATE_JOB_OPTIONS,
; 6023    7024  2            [SJC$_CREATE_QUEUE]=              CREATE_QUEUE_OPTIONS,
. 6024    7025  2            [SJC$_DEASSIGN_QUEUE]=            QUEUE_BIT,
; 6025    7026  2            [SJC$_DEFINE_CHARACTERISTIC]=     DEFINE_CHARACTERISTIC_OPTIONS,
; 6026    7027  2            [SJC$_DEFINE_FORM]=               DEFINE_FORM_OPTIONS,
; 6027    7028  2            [SJC$_DELETE_CHARACTERISTIC]=     DELETE_CHARACTERISTIC_OPTIONS,
; 6028    7029  2            [SJC$_DELETE_FORM]=               DELETE_FORM_OPTIONS,
; 6029    7030  2            [SJC$_DELETE_JOB]=                QUEUE_ENTRY_NUMBER_BITS,
; 6030    7031  2            [SJC$_DELETE_QUEUE]=              QUEUE_BIT,
; 6031    7032  2            [SJC$_ENTER_FILE]=                ENTER_FILE_OPTIONS,
; 6032    7033  2            [SJC$_MERGE_QUEUE]=               QUEUE_DEST_QUEUE_BITS,
; 6033    7034  2            [SJC$_PAUSE_QUEUE]=               QUEUE_BIT,
; 6034    7035  2            [SJC$_RESERVED_FUNC_1]=           RESERVED_FUNC_OPTIONS,
; 6035    7036  2            [SJC$_RESERVED_FUNC_2]=           RESERVED_FUNC_OPTIONS,
; 6036    7037  2            [SJC$_RESET_QUEUE]=               QUEUE_BIT,
; 6037    7038  2            [SJC$_START_ACCOUNTING]=          START_ACCOUNTING_OPTIONS,
; 6038    7039  2            [SJC$_START_QUEUE]=               START_QUEUE_OPTIONS,
; 6039    7040  2            [SJC$_START_QUEUE_MANAGER]=       START_QUEUE_MANAGER_OPTIONS,
; 6040    7041  2            [SJC$_STOP_ACCOUNTING]=           STOP_ACCOUNTING_OPTIONS,
; 6041    7042  2            [SJC$_STOP_QUEUE]=                QUEUE_BIT,
; 6042    7043  2            [SJC$_STOP_QUEUE_MANAGER]=        NO_BITS,
; 6043    7044  2            [SJC$_SYNCHRONIZE_JOB]=           SYNCHRONIZE_OPTIONS,
; 6044    7045  2            [SJC$_WRITE_ACCOUNTING]=          WRITE_ACCOUNTING_OPTIONS),
; 6045    7046  2
; 6046    7047  2    REQUIRED_ITEM_TABLE:    VECTOR[MAX_SNDJBC_FUNC+1] PSECT(CODE) PRESET(
; 6047    7048  2            [SJC$_ABORT_JOB]=                 QUEUE_BIT,
; 6048    7049  2            [SJC$_ADD_FILE]=                  NO_BITS,
; 6049    7050  2            [SJC$_ALTER_JOB]=                 QUEUE_ENTRY_NUMBER_BITS,
; 6050    7051  2            [SJC$_ALTER_QUEUE]=               QUEUE_BIT,
; 6051    7052  2            [SJC$_ASSIGN_QUEUE]=              QUEUE_DEST_QUEUE_BITS,
; 6052    7053  2            [SJC$_BATCH_CHECKPOINT]=          BATCH_CHECKPOINT_OPTIONS,
; 6053    7054  2            [SJC$_BATCH_SERVICE]=             NO_BITS,
; 6054    7055  2            [SJC$_CLOSE_DELETE]=              NO_BITS,
; 6055    7056  2            [SJC$_CLOSE_JOB]=                 NO_BITS,
; 6056    7057  2            [SJC$_CREATE_JOB]=                QUEUE_BIT,
; 6057    7058  2            [SJC$_CREATE_QUEUE]=              QUEUE_BIT,
; 6058    7059  2            [SJC$_DEASSIGN_QUEUE]=            QUEUE_BIT,
; 6059    7060  2            [SJC$_DEFINE_CHARACTERISTIC]=     DEFINE_CHARACTERISTIC_OPTIONS,
; 6060    7061  2            [SJC$_DEFINE_FORM]=               DEFINE_FORM_REQUIRED,
; 6061    7062  2            [SJC$_DELETE_CHARACTERISTIC]=     DELETE_CHARACTERISTIC_OPTIONS,
; 6062    7063  2            [SJC$_DELETE_FORM]=               DELETE_FORM_OPTIONS,
; 6063    7064  2            [SJC$_DELETE_JOB]=                QUEUE_ENTRY_NUMBER_BITS,
; 6064    7065  2            [SJC$_DELETE_QUEUE]=              QUEUE_BIT,
; 6065    7066  2            [SJC$_ENTER_FILE]=                QUEUE_BIT,
; 6066    7067  2            [SJC$_MERGE_QUEUE]=               QUEUE_DEST_QUEUE_BITS,
; 6067    7068  2            [SJC$_PAUSE_QUEUE]=               QUEUE_BIT,
; 6068    7069  2            [SJC$_RESERVED_FUNC_1]=           NO_BITS,
; 6069    7070  2            [SJC$_RESERVED_FUNC_2]=           NO_BITS,
; 6070    7071  2            [SJC$_RESET_QUEUE]=               QUEUE_BIT,
; 6071    7072  2            [SJC$_START_ACCOUNTING]=          NO_BITS,
; 6072    7073  2            [SJC$_START_QUEUE]=               QUEUE_BIT,
; 6073    7074  2            [SJC$_START_QUEUE_MANAGER]=       NO_BITS,
; 6074    7075  2            [SJC$_STOP_ACCOUNTING]=           NO_BITS,
; 6075    7076  2            [SJC$_STOP_QUEUE]=                QUEUE_BIT,
; 6076    7077  2            [SJC$_STOP_QUEUE_MANAGER]=        NO_BITS,
```

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; 6077      7078  2           [SJCS_SYNCHRONIZE_JOB]=         QUEUE_BIT,
; 6078      7079  2           [SJCS_WRITE_ACCOUNTING]=        WRITE_ACCOUNTING_OPTIONS),
; 6079      7080
; 6080      7081  2       BOOLEAN_ITEM:
; 6081    P 7082  2           BOOLEAN_VECTOR(
; 6082    P 7083  2                                           SJCS_NO_AFTER_TIME,
; 6083    P 7084  2               SJCS_ALIGNMENT_MASK,
; 6084    P 7085  2               SJCS_BATCH,                 SJCS_NO_BATCH,
; 6085    P 7086  2                                           SJCS_NO_CHARACTERISTICS,
; 6086    P 7087  2                                           SJCS_NO_CHECKPOINT_DATA,
; 6087    P 7088  2                                           SJCS_NO_CLI,
; 6088    P 7089  2                                           SJCS_NO_CPU_DEFAULT,
; 6089    P 7090  2                                           SJCS_NO_CPU_LIMIT,
; 6090    P 7091  2               SJCS_CREATE_START,
; 6091    P 7092  2               SJCS_DELETE_FILE,           SJCS_NO_DELETE_FILE,
; 6092    P 7093  2               SJCS_DOUBLE_SPACE,          SJCS_NO_DOUBLE_SPACE,
; 6093    P 7094  2               SJCS_FILE_BURST,            SJCS_NO_FILE_BURST,
; 6094    P 7095  2               SJCS_FILE_BURST_ONE,
; 6095    P 7096  2               SJCS_FILE_FLAG,             SJCS_NO_FILE_FLAG,
; 6096    P 7097  2               SJCS_FILE_FLAG_ONE,
; 6097    P 7098  2                                           SJCS_NO_FILE_SETUP_MODULES,
; 6098    P 7099  2               SJCS_FILE_TRAILER,          SJCS_NO_FILE_TRAILER,
; 6099    P 7100  2               SJCS_FILE_TRAILER_ONE,
; 6100    P 7101  2                                           SJCS_NO_FIRST_PAGE,
; 6101    P 7102  2                                           SJCS_NO_FORM_SETUP_MODULES,
; 6102    P 7103  2               SJCS_FORM_SHEET_FEED,       SJCS_NO_FORM_SHEET_FEED,
; 6103    P 7104  2               SJCS_FORM_TRUNCATE,         SJCS_NO_FORM_TRUNCATE,
; 6104    P 7105  2               SJCS_FORM_WRAP,             SJCS_NO_FORM_WRAP,
; 6105    P 7106  2               SJCS_GENERIC_QUEUE,         SJCS_NO_GENERIC_QUEUE,
; 6106    P 7107  2               SJCS_GENERIC_SELECTION,     SJCS_NO_GENERIC_SELECTION,
; 6107    P 7108  2               SJCS_HOLD,                  SJCS_NO_HOLD,
; 6108    P 7109  2               SJCS_JOB_BURST,             SJCS_NO_JOB_BURST,
; 6109    P 7110  2               SJCS_JOB_FLAG,              SJCS_NO_JOB_FLAG,
; 6110    P 7111  2                                           SJCS_NO_JOB_RESET_MODULES,
; 6111    P 7112  2                                           SJCS_NO_JOB_SIZE_MAXIMUM,
; 6112    P 7113  2                                           SJCS_NO_JOB_SIZE_MINIMUM,
; 6113    P 7114  2               SJCS_JOB_SIZE_SCHEDULING,   SJCS_NO_JOB_SIZE_SCHEDULING,
; 6114    P 7115  2               SJCS_JOB_TRAILER,           SJCS_NO_JOB_TRAILER,
; 6115    P 7116  2                                           SJCS_NO_LAST_PAGE,
; 6116    P 7117  2                                           SJCS_NO_LIBRARY_SPECIFICATION,
; 6117    P 7118  2               SJCS_LOG_DELETE,            SJCS_NO_LOG_DELETE,
; 6118    P 7119  2                                           SJCS_NO_LOG_SPECIFICATION,
; 6119    P 7120  2               SJCS_LOG_SPOOL,             SJCS_NO_LOG_SPOOL,
; 6120    P 7121  2               SJCS_LOWERCASE,             SJCS_NO_LOWERCASE,
; 6121    P 7122  2               SJCS_NEW_VERSION,
; 6122    P 7123  2               SJCS_NEXT_JOB,
; 6123    P 7124  2                                           SJCS_NO_NOTE,
; 6124    P 7125  2               SJCS_NOTIFY,                SJCS_NO_NOTIFY,
; 6125    P 7126  2                                           SJCS_NO_OPERATOR_REQUEST,
; 6126    P 7127  2               SJCS_PAGE_HEADER,           SJCS_NO_PAGE_HEADER,
; 6127    P 7128  2                                           SJCS_NO_PAGE_SETUP_MODULES,
; 6128    P 7129  2               SJCS_PAGINATE,              SJCS_NO_PAGINATE,
; 6129    P 7130  2                                           SJCS_NO_PARAMETERS,
; 6130    P 7131  2               SJCS_PASSALL,               SJCS_NO_PASSALL,
; 6131    P 7132  2                                           SJCS_NO_PROCESSOR,
; 6132    P 7133  2               SJCS_REQUEUE,
; 6133    P 7134  2               SJCS_RESERVED_BOOLEAN_1,    SJCS_RESERVED_BOOLEAN_2,
```

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6134      P 7135   2            SJC$_RESERVED_BOOLEAN_3,          SJC$_RESERVED_BOOLEAN_4,
6135      P 7136   2            SJC$_RESTART,                    SJC$_NO_RESTART,
6136      P 7137   2            SJC$_RETAIN_ALL_JOBS,            SJC$_NO_RETAIN_JOBS,
6137      P 7138   2            SJC$_RETAIN_ERROR_JOBS,
6138      P 7139   2            SJC$_SWAP,                       SJC$_NO_SWAP,
6139      P 7140   2            SJC$_TERMINAL,                   SJC$_NO_TERMINAL,
6140      P 7141   2            SJC$_TOP_OF_FILE,
6141      P 7142   2                                             SJC$_NO_WSDEFAULT,
6142      P 7143   2                                             SJC$_NO_WSEXTENT,
6143        7144   2                                             SJC$_NO_WSQUOTA),
6144        7145   2
6145        7146   2        OUTPUT_ITEM:
6146      P 7147   2            BOOLEAN_VECTOR(
6147      P 7148   2                SJC$_BATCH_OUTPUT,
6148      P 7149   2                SJC$_ENTRY_NUMBER_OUTPUT,
6149      P 7150   2                SJC$_JOB_STATUS_OUTPUT,
6150      P 7151   2                SJC$_RESERVED_OUTPUT_1,
6151        7152   2                SJC$_RESERVED_OUTPUT_2);
6152        7153   2
6153        7154   2
6154        7155   2 ! Initialize to scan the item list.
6155        7156   2 !
6156        7157   2 CH$FILL(0, VALUE_STORAGE_END - VALUE_STORAGE_BASE, VALUE_STORAGE_BASE);
6157        7158   2 VALUE_CURSOR = MBX[ACM$T_ITMLST];
6158        7159   2 VALID_ITEMS = .VALID_ITEM_TABLE[.MBX[ACM$W_FUNC]];
6159        7160   2
6160        7161   2
6161        7162   2 ! Loop over all elements of the item list.
6162        7163   2 !
6163        7164   2 WHILE .VALUE_CURSOR LSSA .MBX_END DO
6164        7165   3     BEGIN
6165        7166   3     LOCAL
6166        7167   3         CODE;                    ! Item code
6167        7168   3
6168        7169   3
6169        7170   3     ! Fetch and validate the item code.
6170        7171   3     !
6171        7172   3     CODE = .VALUE_CURSOR[0,0,16,0];
6172        7173   3     VALUE_CURSOR = .VALUE_CURSOR + 2;
6173        7174   3     IF .CODE LSSU MIN_SNDJBC_ITEM OR .CODE GTRU MAX_SNDJBC_ITEM
6174        7175   3         THEN RETURN JBC$_INVITMCOD;
6175        7176   3     IF NOT .VALID_ITEMS[.CODE]
6176        7177   3         THEN RETURN JBC$_INVITMCOD;
6177        7178   3     ITEM_PRESENT[.CODE] = TRUE;
6178        7179   3
6179        7180   3
6180        7181   3     ! If the item has a parameter value, fetch and validate it.
6181        7182   3     !
6182        7183   3     IF NOT .BOOLEAN_ITEM[.CODE]
6183        7184   3     THEN
6184        7185   4         BEGIN
6185        7186   4         LOCAL
6186        7187   4             VALUE_SIZE,
6187        7188   4             STATUS;
6188        7189   4
6189        7190   4
6190        7191   4         VALUE_SIZE = .VALUE_CURSOR[0,0,16,0];
```

SNDJBC
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6191    7192  4           VALUE_CURSOR = .VALUE_CURSOR + 2;
6192    7193  4           STATUS = PROCESS_ONE_OPTION(.CODE, .VALUE_SIZE, .VALUE_CURSOR);
6193    7194  4           IF NOT .STATUS THEN RETURN .STATUS;
6194    7195  4           IF .OUTPUT_ITEM[.CODE]
6195    7196  4               THEN VALUE_CURSOR = .VALUE_CURSOR + 8
6196    7197  4               ELSE VALUE_CURSOR = .VALUE_CURSOR + .VALUE_SIZE;
6197    7198  3           END;
6198    7199  2       END;
6199    7200  2
6200    7201  2
6201    7202  2   ! Ensure that all required items are specified.
6202    7203  2   !
6203    7204  2   INCR I FROM 0 TO %SIZE(BITVECTOR[MAX_SNDJBC_ITEM+1])-1 DO
6204    7205  3       BEGIN
6205    7206  4       IF (.VECTOR[.REQUIRED_ITEM_TABLE[.MBX[ACM$W_FUNC]], .I; ,BYTE] AND
6206    7207  3           .VECTOR[ITEM_PRESENT, .I; ,BYTE]) NEQ
6207    7208  3           .VECTOR[.REQUIRED_ITEM_TABLE[.MBX[ACM$W_FUNC]], .I; ,BYTE]
6208    7209  3       THEN
6209    7210  3           RETURN JBC$_MISREQPAR;
6210    7211  2       END;
6211    7212  2
6212    7213  2
6213    7214  2   SS$_NORMAL
6214    7215  1   END;


                            00000000   02B4 NO_BITS:.LONG    0
                                       02B8          .BLKB   18
                            00#  02CA QUEUE_BIT:
                                       .BYTE   0[16]
                            40   02DA          .BYTE   64
                                 02DB          .BLKB   5
                            00#  02E0 QUEUE_DEST_QUEUE_BITS:
                                       .BYTE   0[3]
                            04   02E3          .BYTE   4
                            00#  02E4          .BYTE   0[12]
                            40   02F0          .BYTE   64
                                 02F1          .BLKB   5
                            00#  02F6 QUEUE_ENTRY_NUMBER_BITS:
                                       .BYTE   0[3]
                            40   02F9          .BYTE   64
                            00#  02FA          .BYTE   0[12]
                            40   0306          .BYTE   64
                                 0307          .BLKB   5
                            00#  030C ABORT_JOB_OPTIONS:
                                       .BYTE   0[3]
                            44   030F          .BYTE   68
                            00#  0310          .BYTE   0[4]
                       01   80   0314          .BYTE   -128, 1
                            00#  0316          .BYTE   0[6]
                       02   44   031C          .BYTE   68, 2
                                 031E          .BLKB   4
                            00#  0322 ADD_FILE_OPTIONS:
                                       .BYTE   0[3]
                   EB  DD   33   0325          .BYTE   51, -35, -21
                            00#  0328          .BYTE   0[5]
```

```
                                              18  0292D          .BYTE    24
                                              00# 0292E          .BYTE    0[2]
                                              66  02930          .BYTE    102
                                              00  02931          .BYTE    0
                                              03  02932          .BYTE    3
                                                  02933          .BLKB    5
                    CO  EB  5D  76  67  70    18  02938 ALTER_JOB_OPTIONS:
                                                                 .BYTE    24, 112, 103, 118, 93, -21, -64
                                              00  0293F          .BYTE    0
                                              89  80  02940      .BYTE    -128, -119
                                              00  02942          .BYTE    0
        1F  80  OC  47  FF  E6  FC  FF        98  02943          .BYTE    -104, -1, -4, -26, -1, 71, 12, -128, 31
                                                  0294C          .BLKB    2
                                      78  70  80  0294E ALTER_QUEUE_OPTIONS:
                                                                 .BYTE    -128, 112, 120
                                              00  02951          .BYTE    0
                                          CO  38  77  02952      .BYTE    119, 56, -64
                                              00  02955          .BYTE    0
                                      06  FF  76  30  02956      .BYTE    48, 118, -1, 6
                                              00# 0295A          .BYTE    0[2]
                                              61  0295C          .BYTE    97
                                              00  0295D          .BYTE    0
                                  1F  86  70  60  0295E          .BYTE    96, 112, -122, 31
                                                  02962          .BLKB    2
                                              00  02964 BATCH_CHECKPOINT_OPTIONS:
                                                                 .BYTE    0
                                              80  02965          .BYTE    -128
                                                  02966          .BLKB    20
                                              00  0297A BATCH_SERVICE_OPTIONS:
                                                                 .BYTE    0
                                              OC  0297B          .BYTE    12
                                                  0297C          .BLKB    20
                                              00# 02990 CLOSE_JOB_OPTIONS:
                                                                 .BYTE    0[11]
                                              01  0299B          .BYTE    1
                                                  0299C          .BLKB    10
                    CO  38  77  80  66  70    18  029A6 CREATE_JOB_OPTIONS:
                                                                 .BYTE    24, 112, 102, -128, 119, 56, -64
                                              00  029AD          .BYTE    0
                                              89  80  029AE      .BYTE    -128, -119
                                              00  029B0          .BYTE    0
        FF  CO  OC  44  FF  80  FC  FF        80  029B1          .BYTE    -128, -1, -4, -128, -1, 68, 12, -64, -1
                                                  029BA          .BLKB    2
                    CO  38  77  08  F8  73    80  029BC CREATE_QUEUE_OPTIONS:
                                                                 .BYTE    -128, 115, -8, 8, 119, 56, -64
                                              00  029C3          .BYTE    0
                                      66  FF  76  7C  029C4      .BYTE    124, 118, -1, 102
                                              00# 029C8          .BYTE    0[2]
                                              61  029CA          .BYTE    97
                                              00  029CB          .BYTE    0
                                  1F  9E  FO  78  029CC          .BYTE    120, -16, -98, 31
                                                  029D0          .BLKB    2
                                              00  029D2 DEFINE_CHARACTERISTIC_OPTIONS:
                                                                 .BYTE    0
                                              30  029D3          .BYTE    48
                                                  029D4          .BLKB    20
                                              00# 029E8 DEFINE_FORM_OPTIONS:
```

```
                                                       .BYTE    0[6]
                              03  FF  FF  029EE         .BYTE    -1, -1, 3
                                      00#  029F1        .BYTE    0[5]
                                      18   029F6        .BYTE    24
                                           029F7        .BLKB    7
                                      00#  029FE  DEFINE_FORM_REQUIRED:
                                                       .BYTE    0[6]
                                      CO   02A04        .BYTE    -64
                                           02A05        .BLKB    15
                                      00   02A14  DELETE_CHARACTERISTIC_OPTIONS:
                                                       .BYTE    0
                                      10   02A15        .BYTE    16
                                           02A16        .BLKB    20
                                      00#  02A2A  DELETE_FORM_OPTIONS:
                                                       .BYTE    0[6]
                                      40   02A30        .BYTE    64
                                           02A31        .BLKB    15
            CO  EB  DD  B3  66  74  18   02A40  ENTER_FILE_OPTIONS:
                                                       .BYTE    24, 116, 102, -77, -35, -21, -64
                                      00   02A47        .BYTE    0
                                  89  80   02A48        .BYTE    -128, -119
                                      00   02A4A        .BYTE    0
      FF  CO  OC  47  FF  E6  FC  FF  99   02A4B        .BYTE    -103, -1, -4, -26, -1, 71, 12, -64, -1
                                           02A54        .BLKB    2
                                      00#  02A56  RESERVED_FUNC_OPTIONS:
                                                       .BYTE    0[20]
                                  OF  FC   02A6A        .BYTE    -4, 15
                                      04   02A6C  START_ACCOUNTING_OPTIONS:
                                                       .BYTE    4
                                      00#  02A6D        .BYTE    0[12]
                                      01   02A79        .BYTE    1
                                           02A7A        .BLKB    8
            CO  38  77  08  78  73  E0   02A82  START_QUEUE_OPTIONS:
                                                       .BYTE    -32, 115, 120, 8, 119, 56, -64
                                      00   02A89        .BYTE    0
                              66  FF  76  7C   02A8A     .BYTE    124, 118, -1, 102
                                      00   02A8E        .BYTE    0
                                  61  02   02A8F        .BYTE    2, 97
                                      00   02A91        .BYTE    0
                              1F  BF  F1  78   02A92     .BYTE    120, -15, -65, 31
                                           02A96        .BLKB    2
                                      00#  02A98  START_QUEUE_MANAGER_OPTIONS:
                                                       .BYTE    0[13]
                                      01   02AA5        .BYTE    1
                                      00#  02AA6        .BYTE    0[2]
                                      80   02AA8        .BYTE    -128
                                      00#  02AA9        .BYTE    0[3]
                                      03   02AAC        .BYTE    3
                                           02AAD        .BLKB    1
                                      04   02AAE  STOP_ACCOUNTING_OPTIONS:
                                                       .BYTE    4
                                           02AAF        .BLKB    21
                                      00#  02AC4  SYNCHRONIZE_OPTIONS:
                                                       .BYTE    0[3]
                                      40   02AC7        .BYTE    64
                                      00#  02AC8        .BYTE    0[5]
                                      80   02ACD        .BYTE    -128
```

```
                                                 00#  02ACE              .BYTE   0[6]
                                                 40   02AD4              .BYTE   64
                                                      02AD5              .BLKB   5
                                                 02   02ADA WRITE_ACCOUNTING_OPTIONS:
                                                                         .BYTE   2
                                                      02ADB              .BLKB   21
                                                 00#  02AF0 VALID_ITEM_TABLE:
                                                                         .BYTE   0[4]
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02AF4       .ADDRESS ABORT_JOB_OPTIONS, ADD_FILE_OPTIONS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B0C       ALTER_JOB_OPTIONS, ALTER_QUEUE_OPTIONS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B24       QUEUE_DEST_QUEUE_BITS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B3C       BATCH_CHECKPOINT_OPTIONS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B54       BATCH_SERVICE_OPTIONS, NO_BITS, -
                              00000000' 00000000' 02B6C       CLOSE_JOB_OPTIONS, CREATE_JOB_OPTIONS, -
                                                                         CREATE_QUEUE_OPTIONS, QUEUE_BIT, -
                                                                         DEFINE_CHARACTERISTIC_OPTIONS, -
                                                                         DEFINE_FORM_OPTIONS, -
                                                                         DELETE_CHARACTERISTIC_OPTIONS, -
                                                                         DELETE_FORM_OPTIONS, -
                                                                         QUEUE_ENTRY_NUMBER_BITS, QUEUE_BIT, -
                                                                         ENTER_FILE_OPTIONS, -
                                                                         QUEUE_DEST_QUEUE_BITS, QUEUE_BIT, -
                                                                         QUEUE_BIT, START_ACCOUNTING_OPTIONS, -
                                                                         START_QUEUE_OPTIONS, -
                                                                         START_QUEUE_MANAGER_OPTIONS, -
                                                                         STOP_ACCOUNTING_OPTIONS, QUEUE_BIT, -
                                                                         NO_BITS, SYNCHRONIZE_OPTIONS, -
                                                                         WRITE_ACCOUNTING_OPTIONS, -
                                                                         RESERVED_FUNC_OPTIONS, -
                                                                         RESERVED_FUNC_OPTIONS
                                                 00#  02B74 REQUIRED_ITEM_TABLE:
                                                                         .BYTE   0[4]
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B78       .ADDRESS QUEUE_BIT, NO_BITS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02B90       QUEUE_ENTRY_NUMBER_BITS, QUEUE_BIT, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02BA8       QUEUE_DEST_QUEUE_BITS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02BC0       BATCH_CHECKPOINT_OPTIONS, NO_BITS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02BD8       NO_BITS, NO_BITS, QUEUE_BIT, QUEUE_BIT, -
                              00000000' 00000000' 02BF0       QUEUE_BIT, DEFINE_CHARACTERISTIC_OPTIONS, -
                                                                         DEFINE_FORM_REQUIRED, -
                                                                         DELETE_CHARACTERISTIC_OPTIONS, -
                                                                         DELETE_FORM_OPTIONS, -
                                                                         QUEUE_ENTRY_NUMBER_BITS, QUEUE_BIT, -
                                                                         QUEUE_BIT, QUEUE_DEST_QUEUE_BITS, -
                                                                         QUEUE_BIT, QUEUE_BIT, NO_BITS, QUEUE_BIT, -
                                                                         NO_BITS, NO_BITS, QUEUE_BIT, NO_BITS, -
                                                                         QUEUE_BIT, WRITE_ACCOUNTING_OPTIONS, -
                                                                         NO_BITS, NO_BITS
                     BA  77  33  D5  43  30  02BF8 BOOLEAN_ITEM:
                                                                         .BYTE   48, 67, -43, 51, 119, -70
                                                 00   02BFE              .BYTE   0
   3C  15  3E  7E  13  80  76  BB  F9  D6  EA  37  BF  6E   02BFF        .BYTE   110, -65, 55, -22, -42, -7, -69, 118, -
                                                                         -128, 19, 126, 62, 21, 60
                                                      02C0D              .BLKB   1
                                                 00   02C0E OUTPUT_ITEM:
                                                                         .BYTE   0
                                                 08   02C0F              .BYTE   8
                                                 00   02C10              .BYTE   0
```

SNDJBC $SNDACC, $SNDSMB, and $SNDJBC services   J 9
V04-000   16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742   Page 192
                                                          14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1   (40)

SY
V0

```
                                    80  02C11          .BYTE   -128
                                    00# 02C12          .BYTE   0[7]
                                    01  02C19          .BYTE   1
                                    00# 02C1A          .BYTE   0[9]
                                    0C  02C23          .BYTE   12


                         007C C0000 PROCESS_SNDJBC_ITEM_LIST:
                                                       .WORD   Save R2,R3,R4,R5,R6                          6565
                  56 00000000'  EF  9E 00002           MOVAB   VALUE_STORAGE_BASE, R6
05A0   8F           00           6E  00  2C 00009       MOVC5   #0, (SP), #0, #1440, VALUE_STORAGE_BASE     7157
                                    66     00010
                  50    F440  C6  D0 00011              MOVL    MBX, R0                                      7158
                  52      5A  A0  9E 00016              MOVAB   90(R0), VALUE_CURSOR
                  50      58  A0  3C 0001A              MOVZWL  88(R0), R0                                   7159
                  55  FEA9 CF40  D0 0001E               MOVL    VALID_ITEM_TABLE[R0], VALID_ITEMS
                         F444  C6  52  D1 00024 1$:      CMPL    VALUE_CURSOR, MBX_END                       7164
                                    41  1E 00029         BGEQU   6$
                                    53  82  3C 0002B     MOVZWL  (VALUE_CURSOR)+, CODE                       7172
                                    0D  13 0002E         BEQL    2$                                         7174
                  000000AB  8F  53  D1 00030             CMPL    CODE, #171
                                    04  1A 00037         BGTRU   2$
                  08           65  53  E0 00039          BBS     CODE, (VALID_ITEMS), 3$                     7176
                  50 00048060  8F  D0 0003D 2$:          MOVL    #295008, R0                                7177
                                    04 00044             RET
                  00           66  53  E2 00045 3$:      BBSS    CODE, ITEM_PRESENT, 4$                      7178
                  D6       87  AF  53  E0 00049 4$:      BBS     CODE, BOOLEAN_ITEM, 1$                      7183
                                    54  82  3C 0004E     MOVZWL  (VALUE_CURSOR)+, VALUE_SIZE                 7191
                                    52  DD 00051         PUSHL   VALUE_CURSOR                               7193
                                    18  BB 00053         PUSHR   #^M<R3,R4>
                         F25A  CF  03  FB 00055          CALLS   #3, PROCESS_ONE_OPTION                     7194
                  48           50  E9 0005A              BLBC    STATUS, 9$
                  05       89  AF  53  E1 0005D          BBC     CODE, OUTPUT_ITEM, 5$                       7195
                                    52  08  C0 00062     ADDL2   #8, VALUE_CURSOR                            7196
                                    BD  11 00065         BRB     1$
                  52           54  C0 00067 5$:          ADDL2   VALUE_SIZE, VALUE_CURSOR                    7197
                                    B8  11 0006A         BRB     1$                                         7183
                  50    F440  C6  D0 0006C 6$:           MOVL    MBX, R0                                     7206
                  53      58  A0  9E 00071              MOVAB   88(R0), R3
                                    50  D4 00075         CLRL    I
                                    51  63  3C 00077 7$:  MOVZWL  (R3), R1
                  51  FED1 CF41  D0 0007A               MOVL    REQUIRED_ITEM_TABLE[R1], R1
                  52      6041  9A 00080               MOVZBL  (I)[R1], R2                                  7207
                  54      6640  9A 00084               MOVZBL  ITEM_PRESENT[I], R4
                                    54  54  D2 00088     MCOML   R4, R4
                                    52  54  CA 0008B     BICL2   R4, R2
52       6041        08  00  ED 0008E                   CMPZV   #0, #8, (I)[R1], R2                         7208
                                    08  13 00092         BEQL    8$
                  50 00048108  8F  D0 00096             MOVL    #295176, R0                                7210
                                    04 0009D             RET
                  D5           50  15  F3 0009E 8$:     AOBLEQ  #21, I, 7$                                  7204
                                    50  01  D0 000A2     MOVL    #1, R0                                     7215
                                    04 000A5 9$:         RET
```

; Routine Size: 166 bytes,   Routine Base: CODE + 2C24

SNDJBC
V04-000

$SNDACC, $SNDSMB, and $SNDJBC services

K 9
16-Sep-1984 00:27:53   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:15   [JOBCTL.SRC]SNDJBC.B32;1

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SY!
V0

```
; 6216     7216   1 GLOBAL ROUTINE SNDJBC_SERVICE=
; 6217     7217   1
; 6218     7218   1 !++
; 6219     7219   1 !
; 6220     7220   1 ! FUNCTIONAL DESCRIPTION:
; 6221     7221   1 !     This routine processes the message type:
; 6222     7222   1 !            MSG$_SNDJBC              send to job controller
; 6223     7223   1 !     by dispatching to a request-specific routine.
; 6224     7224   1 !
; 6225     7225   1 ! INPUT PARAMETERS:
; 6226     7226   1 !     NONE
; 6227     7227   1 !
; 6228     7228   1 ! IMPLICIT INPUTS:
; 6229     7229   1 !     MBX             - Pointer to buffered mailbox message.
; 6230     7230   1 !
; 6231     7231   1 ! OUTPUT PARAMETERS:
; 6232     7232   1 !     NONE
; 6233     7233   1 !
; 6234     7234   1 ! IMPLICIT OUTPUTS:
; 6235     7235   1 !     NONE
; 6236     7236   1 !
; 6237     7237   1 ! ROUTINE VALUE:
; 6238     7238   1 !     Completion status to be returned to requestor.
; 6239     7239   1 !
; 6240     7240   1 ! SIDE EFFECTS:
; 6241     7241   1 !     NONE
; 6242     7242   1 !
; 6243     7243   1 !--
; 6244     7244   1
; 6245     7245   2 BEGIN
; 6246     7246   2 OWN
; 6247     7247   2         SEARCH_REQUIRED:        BITVECTOR[MAX_SNDJBC_FUNC+1]
; 6248     7248   2             PSECT(CODE) PRESET(
; 6249     7249   2                 [SJC$_ABORT_JOB]=           TRUE,
; 6250     7250   2                 [SJC$_ALTER_JOB]=           TRUE,
; 6251     7251   2                 [SJC$_ALTER_QUEUE]=         TRUE,
; 6252     7252   2                 [SJC$_ASSIGN_QUEUE]=        TRUE,
; 6253     7253   2                 [SJC$_CREATE_JOB]=          TRUE,
; 6254     7254   2                 [SJC$_DEASSIGN_QUEUE]=      TRUE,
; 6255     7255   2                 [SJC$_DELETE_JOB]=          TRUE,
; 6256     7256   2                 [SJC$_ENTER_FILE]=          TRUE,
; 6257     7257   2                 [SJC$_MERGE_QUEUE]=         TRUE,
; 6258     7258   2                 [SJC$_PAUSE_QUEUE]=         TRUE,
; 6259     7259   2                 [SJC$_RESET_QUEUE]=         TRUE,
; 6260     7260   2                 [SJC$_START_QUEUE]=         TRUE,
; 6261     7261   2                 [SJC$_STOP_QUEUE]=          TRUE,
; 6262     7262   2                 [SJC$_SYNCHRONIZE_JOB]=     TRUE),
; 6263     7263   2
; 6264     7264   2         QUEUE_FILE_REQUIRED:    BITVECTOR[MAX_SNDJBC_FUNC+1]
; 6265     7265   2             PSECT(CODE) PRESET(
; 6266     7266   2                 [SJC$_ABORT_JOB]=           TRUE,
; 6267     7267   2                 [SJC$_ADD_FILE]=            TRUE,
; 6268     7268   2                 [SJC$_ALTER_JOB]=           TRUE,
; 6269     7269   2                 [SJC$_ALTER_QUEUE]=         TRUE,
; 6270     7270   2                 [SJC$_ASSIGN_QUEUE]=        TRUE,
; 6271     7271   2                 [SJC$_BATCH_SERVICE]=       TRUE,
; 6272     7272   2                 [SJC$_CLOSE_DELETE]=        TRUE,
```

```
  6273    7273  2                    [SJC$_CLOSE_JOB]=                  TRUE,
  6274    7274  2                    [SJC$_CREATE_JOB]=                 TRUE,
  6275    7275  2                    [SJC$_CREATE_QUEUE]=               TRUE,
  6276    7276  2                    [SJC$_DEASSIGN_QUEUE]=             TRUE,
  6277    7277  2                    [SJC$_DEFINE_CHARACTERISTIC]=      TRUE,
  6278    7278  2                    [SJC$_DEFINE_FORM]=                TRUE,
  6279    7279  2                    [SJC$_DELETE_CHARACTERISTIC]=      TRUE,
  6280    7280  2                    [SJC$_DELETE_FORM]=                TRUE,
  6281    7281  2                    [SJC$_DELETE_JOB]=                 TRUE,
  6282    7282  2                    [SJC$_DELETE_QUEUE]=               TRUE,
  6283    7283  2                    [SJC$_ENTER_FILE]=                 TRUE,
  6284    7284  2                    [SJC$_MERGE_QUEUE]=                TRUE,
  6285    7285  2                    [SJC$_PAUSE_QUEUE]=                TRUE,
  6286    7286  2                    [SJC$_RESET_QUEUE]=                TRUE,
  6287    7287  2                    [SJC$_START_QUEUE]=                TRUE,
  6288    7288  2                    [SJC$_STOP_QUEUE]=                 TRUE,
  6289    7289  2                    [SJC$_SYNCHRONIZE_JOB]=            TRUE),
  6290    7290  2
  6291    7291  2           PROCESSING_ROUTINE:                VECTOR[MAX_SNDJBC_FUNC+1]
  6292    7292  2                PSECT(.ODE) PRESET(
  6293    7293  2                    [SJC$_ABORT_JOB]=              SJC_ABORT_JOB,
  6294    7294  2                    [SJC$_ADD_FILE]=              SJC_ADD_FILE,
  6295    7295  2                    [SJC$_ALTER_JOB]=             SJC_ALTER_JOB,
  6296    7296  2                    [SJC$_ALTER_QUEUE]=           SJC_ALTER_QUEUE,
  6297    7297  2                    [SJC$_ASSIGN_QUEUE]=          SJC_ASSIGN_QUEUE,
  6298    7298  2                    [SJC$_BATCH_CHECKPOINT]=      SJC_BATCH_CHECKPOINT,
  6299    7299  2                    [SJC$_BATCH_SERVICE]=         SJC_BATCH_SERVICE,
  6300    7300  2                    [SJC$_CLOSE_DELETE]=          SJC_CLOSE_DELETE,
  6301    7301  2                    [SJC$_CLOSE_JOB]=             SJC_CLOSE_JOB,
  6302    7302  2                    [SJC$_CREATE_JOB]=            SJC_CREATE_JOB,
  6303    7303  2                    [SJC$_CREATE_QUEUE]=          SJC_CREATE_QUEUE,
  6304    7304  2                    [SJC$_DEASSIGN_QUEUE]=        SJC_DEASSIGN_QUEUE,
  6305    7305  2                    [SJC$_DEFINE_CHARACTERISTIC]= SJC_DEFINE_CHARACTERISTIC,
  6306    7306  2                    [SJC$_DEFINE_FORM]=           SJC_DEFINE_FORM,
  6307    7307  2                    [SJC$_DELETE_CHARACTERISTIC]= SJC_DELETE_CHARACTERISTIC,
  6308    7308  2                    [SJC$_DELETE_FORM]=           SJC_DELETE_FORM,
  6309    7309  2                    [SJC$_DELETE_JOB]=            SJC_DELETE_JOB,
  6310    7310  2                    [SJC$_DELETE_QUEUE]=          SJC_DELETE_QUEUE,
  6311    7311  2                    [SJC$_ENTER_FILE]=            SJC_ENTER_FILE,
  6312    7312  2                    [SJC$_MERGE_QUEUE]=           SJC_MERGE_QUEUE,
  6313    7313  2                    [SJC$_PAUSE_QUEUE]=           SJC_PAUSE_QUEUE,
  6314    7314  2                    [SJC$_RESET_QUEUE]=           SJC_RESET_QUEUE,
  6315    7315  2                    [SJC$_START_ACCOUNTING]=      SJC_START_ACCOUNTING,
  6316    7316  2                    [SJC$_START_QUEUE]=           SJC_START_QUEUE,
  6317    7317  2                    [SJC$_START_QUEUE_MANAGER]=   SJC_START_QUEUE_MANAGER,
  6318    7318  2                    [SJC$_STOP_ACCOUNTING]=       SJC_STOP_ACCOUNTING,
  6319    7319  2                    [SJC$_STOP_QUEUE]=            SJC_STOP_QUEUE,
  6320    7320  2                    [SJC$_STOP_QUEUE_MANAGER]=    SJC_STOP_QUEUE_MANAGER,
  6321    7321  2                    [SJC$_SYNCHRONIZE_JOB]=       SJC_SYNCHRONIZE_JOB,
  6322    7322  2                    [SJC$_WRITE_ACCOUNTING]=      SJC_WRITE_ACCOUNTING);
  6323    7323  2
  6324    7324  2
  6325    7325  2    LOCAL
  6326    7326  2         SQX_N,                                   ! Record number of SQX
  6327    7327  2         SQE:              REF BBLOCK,            ! Pointer to SQX entry
  6328    7328  2         SMQ_N,                                   ! Record number of SMQ
  6329    7329  2         SMQ:              REF BBLOCK,            ! Pointer to SMQ
```

```
: 6330         7330  2          STATUS;
: 6331         7331  2
: 6332         7332  2
: 6333         7333  2  ! Ensure that the function code is in range.
: 6334         7334  2  !
: 6335         7335  2  DIAG_TRACE[1] = .MBX[ACM$W_FUNC];        ! ***** diagnostic info *****
: 6336         7336  2  IF .MBX[ACM$W_FUNC] LSSU MIN_SNDJBC_FUNC
: 6337         7337  2  OR .MBX[ACM$W_FUNC] GTRU MAX_SNDJBC_FUNC
: 6338         7338  2  THEN
: 6339         7339  2      RETURN JBC$_INVFUNCOD;
: 6340         7340  2
: 6341         7341  2  SNDJBC_COUNT[.MBX[ACM$W_FUNC]] = .SNDJBC_COUNT[.MBX[ACM$W_FUNC]] + 1;
: 6342         7342  2
: 6343         7343  2
: 6344         7344  2  ! Ensure that the queue file is open, and lock it.
: 6345         7345  2  !
: 6346         7346  2  IF .QUEUE_FILE_REQUIRED[.MBX$W_FUNC]]
: 6347         7347  2  THEN
: 6348         7348  3      BEGIN
: 6349         7349  3      IF .QUEUE_FAB[FAB$W_IFI] EQL 0 THEN RETURN JBC$_JOBQUEDIS;
: 6350         7350  3      LOCK_QUEUE_FILE();
: 6351         7351  2      END;
: 6352         7352  2
: 6353         7353  2
: 6354         7354  2  ! Process the item list.
: 6355         7355  2  !
: 6356         7356  2  STATUS = PROCESS_SNDJBC_ITEM_LIST();
: 6357         7357  2  IF NOT .STATUS THEN RETURN .STATUS;
: 6358         7358  2
: 6359         7359  2
: 6360         7360  2  ! If the request requires a queue search, search for the queue.
: 6361         7361  2  !
: 6362         7362  2  IF .SEARCH_REQUIRED[.MBX$W_FUNC]]
: 6363         7363  2  THEN
: 6364         7364  2      IF NOT FIND_QUEUE(VALUE_QUEUE; SQX_N, SQE, SMQ_N, SMQ)
: 6365         7365  2      THEN
: 6366         7366  2          RETURN JBC$_NOSUCHQUE;
: 6367         7367  2
: 6368         7368  2
: 6369         7369  2  ! Dispatch to execute the request.
: 6370         7370  2  !
: 6371         7371  2  (.PROCESSING_ROUTINE[.MBX[ACM$W_FUNC]])(.SQX_N, .SQE, .SMQ_N, .SMQ)
: 6372         7372  1  END;
```

```
                                        02CCA           .BLKB    2
                        29  7A  14  3A   02CCC  SEARCH_REQUIRED:
                                                        .BYTE    58, 20, 122, 41
                                        02CD0           .BLKB    1
                                        02CD1           .BLKB    3
                        29  7F  FF  BE   02CD4  QUEUE_FILE_REQUIRED:
                                                        .BYTE    -66, -1, 127, 41
                                        02CD8           .BLKB    1
                                        02CD9           .BLKB    3
                                 00#    02CDC  PROCESSING_ROUTINE:
                                                        .BYTE    0[4]
```

```
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02CE0        .ADDRESS  SJC_ABORT_JOB, SJC_ADD_FILE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000G 02CF8                   SJC_ALTER_JOB, SJC_ALTER_QUEUE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02D10                   SJC_ASSIGN_QUEUE, SJC_BATCH_CHECKPOINT, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02D28                   SJC_BATCH_SERVICE, SJC_CLOSE_DELETE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 02D40                   SJC_CLOSE_JOB, SJC_CREATE_JOB, -
                                                                                     SJC_CREATE_QUEUE, SJC_DEASSIGN_QUEUE, -
                                                                                     SJC_DEFINE_CHARACTERISTIC, -
                                                                                     SJC_DEFINE_FORM, -
                                                                                     SJC_DELETE_CHARACTERISTIC, -
                                                                                     SJC_DELETE_FORM, SJC_DELETE_JOB, -
                                                                                     SJC_DELETE_QUEUE, SJC_ENTER_FILE, -
                                                                                     SJC_MERGE_QUEUE, SJC_PAUSE_QUEUE, -
                                                                                     SJC_RESET_QUEUE, SJC_START_ACCOUNTING, -
                                                                                     SJC_START_QUEUE, SJC_START_QUEUE_MANAGER, -
                                                                                     SJC_STOP_ACCOUNTING, SJC_STOP_QUEUE, -
                                                                                     SJC_STOP_QUEUE_MANAGER, =
                                                                                     SJC_SYNCHRONIZE_JOB, SJC_WRITE_ACCOUNTING
                                                           02D58          .BLKB    8


                                              0F0C 00000              .ENTRY   SNDJBC_SERVICE, Save R2,R3,R8,R9,R10,R11    ; 7216
                         53      FF6E     CF   9E 00002              MOVAB    QUEUE_FILE_REQUIRED, R3
                         52  00000000'   EF   9E 00007              MOVAB    MBX, R2
                         50              62   D0 0000E              MOVL     MBX, R0                                      ; 7335
                         50          58  A0   3C 00011              MOVZWL   88(R0), R0
                 FDC4    C2          50  D0 00015              MOVL     R0, DIAG_TRACE+4
                                         05   13 0001A              BEQL     1$                                          ; 7336
                         20              50   B1 0001C              CMPW     R0, #32                                     ; 7337
                                         08   1B 0001F              BLEQU    2$
                         50 00048068     8F   D0 00021  1$:        MOVL     #295016, R0                                  ; 7339
                                         04      00028              RET
                            FEB0 C240    D6 00029  2$:        INCL     SNDJBC_COUNT[R0]                                  ; 7341
                 15                 63   50   E1 0002E              BBC      R0, QUEUE_FILE_REQUIRED, 4$                  ; 7346
                            00D6    C2   B5 00032              TSTW     QUEUE_FAB+2                                       ; 7349
                                         08   12 00036              BNEQ     3$
                         50 00048078     8F   D0 00038              MOVL     #295032, R0
                                         04      0003F              RET
                 00000000G EF             00   FB 00040  3$:        CALLS    #0, LOCK_QUEUE_FILE                          ; 7350
                    FE78   CF             00   FB 00047  4$:        CALLS    #0, PROCESS_SNDJBC_ITEM_LIST                 ; 7356
                         3A              50   E9 0004C              BLBC     STATUS, 6$                                   ; 7357
                         50              62   D0 0004F              MOVL     MBX, R0                                      ; 7362
                         51          58  A0   3C 00052              MOVZWL   88(R0), R1
                 16       F8     A3      51   E1 00056              BBC      R1, SEARCH_REQUIRED, 5$
                                  111D   C2   9F 0005B              PUSHAB   VALUE_QUEUE
                 00000000G EF             01   FB 0005F              CALLS    #1, FIND_QUEUE                              ; 7364
                         08              50   E8 00066              BLBS     R0, 5$
                         50 00048038     8F   D0 00069              MOVL     #294968, R0                                 ; 7366
                                         04      00070              RET
                         50              62   D0 00071  5$:        MOVL     MBX, R0                                      ; 7371
                         50          58  A0   9E 00074              MOVAB    88(R0), R0
                         50              60   3C 00078              MOVZWL   (R0), R0
                         50     08 A340  D0 0007B              MOVL     PROCESSING_ROUTINE[R0], R0
                         7E              5A   7D 00080              MOVQ     SMQ_N, -(SP)
                         7E              58   7D 00083              MOVQ     SQX_N, -(SP)
                         60              04   FB 00086              CALLS    #4, (R0)
                                         04      00089  6$:        RET                                                   ; 7372
```

; Routine Size: 138 bytes,   Routine Base: CODE + 2D60

; 6374   7373 1 END
; 6375   7374 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
COMMON	5024	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, OVR,NOPIC,ALIGN(2)
CODE	11754	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

| | -------- Symbols -------- | | | Pages | Processing |
File	Total	Loaded	Percent		Mapped	Time
_255DUA28:[SYSLIB]LIB.L32;1	18619	400	2	1000	00:01.4

COMMAND QUALIFIERS

     BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:SNDJBC/OBJ=OBJ$:SNDJBC MSRC$:SNDJBC/UPDATE=(ENH$:SNDJBC)
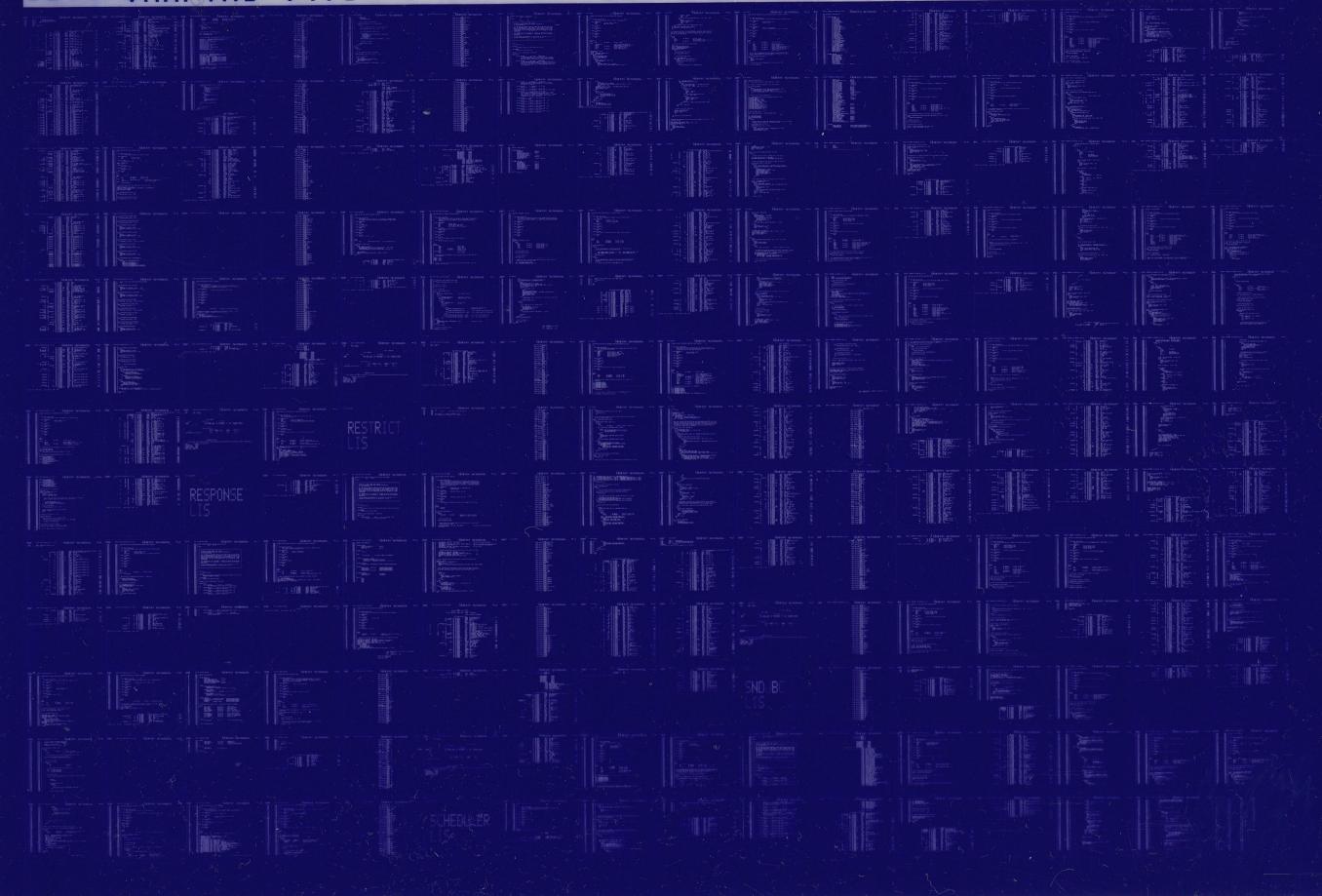
; Size: 9511 code + 7267 data bytes
; Run Time: 02:26.1
; Elapsed Time: 09:10.7
; Lines/CPU Min: 3028
; Lexemes/CPU-Min: 34352
; Memory Used: 625 pages
; Compilation Complete